EN

Original installation and operation manual

QWIK-PURE®

› 10

02-535

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1. Notes about the documentation

This documentation contains all the necessary steps for use of the product and the accessories.

1.1 Contact

Manufacturer	Customer service and tools
BEKO TECHNOLOGIES GmbH Im Taubental 7 | 41468 Neuss Phone: +49 2131 988-1000 info@beko-technologies.com www.beko-technologies.com	**BEKO** TECHNOLOGIES GmbH Im Taubental 7 | 41468 Neuss Phone: +49 2131 988-1000 service-eu@beko-technologies.com www.beko-technologies.com

INFORMATION	Country-specific manufacturer representatives
	You can contact the country-specific manufacturer's representative via the address listed in the address section on the rear cover or by using the contact form on the manufacturer's website.

1.2 Information about this installation and operation manual

INFORMATION	Copyright protection
	The contents of the installation and operation manual in the form of text, figures, illustrations, photographs, technical drawings, diagrams and other representations are protected by the copyright of the manufacturer. The distribution as well as the duplication of this document, the exploitation and the communication of its contents are prohibited unless expressly authorised.

Publication date	Revision	Version	Reason for change	Scope of change
30 March 2023	00	00	New document	New document
7 May 2024	02	00	Revision	Revision
20 August 2024	03	00	Revision	Revision

The installation and operation manual, hereinafter referred to as the manual, must always be kept close to the product and be in a permanently legible condition.

The manual must be handed over along with the product if it is sold or passed on.

NOTE	Follow the instructions given in the manual
	This manual contains all the basic information required for safe operation of the product and must be read before any actions are performed. Otherwise personal and material hazards as well as malfunction and device failure are possible.

2. Safety

2.1 Use

2.1.1 Intended use

The **QWIK-PURE®**, also referred to below as the “product”, is used to treat demulsifiable compressor condensates from oil-lubricated and oil-free compressors. Physical processes are used to separate impurities, as well as oils that can be directly separated, from the corresponding water.

Any use of this system other than the use described in this manual is hereby deemed to be non-intended and can cause a hazard for the safety of people and the environment.

The following must be noted for intended use:

- Read and follow the manual.
- Use the product and the accessories exclusively within the operating parameters and agreed delivery conditions specified in section Technical data.
- Use the product and accessories exclusively with fluids that are free of caustic, aggressive, corrosive, toxic, flammable, oxidising and inorganic components.
  In cases of doubt an analysis must be carried out.
- Use the product and the accessories exclusively within a piping system designed in conformity with the operating parameters specified in section Technical data.
- Use the product and the accessories exclusively outside of areas exposed to mechanical loads and splash water.
- Only use the product and accessories outside potentially explosive atmospheres.
- Use the product and the accessories exclusively outside of areas exposed to direct sunlight and heat sources.
- Combine the product and the accessories only with the recommended manufacturer products and components indicated in this manual.
- Adhere to the prescribed maintenance schedule.

Before using the product and the accessories, the operating company must make sure that all conditions and prerequisites for intended use are given.

The product and the accessories have been exclusively designed for stationary use in a commercial or industrial area. All of the assembly, installation, operation, maintenance, disassembly and disposal work described must be performed exclusively by qualified skilled technical personnel.

2.1.2 Reasonably foreseeable inappropriate use

Reasonably foreseeable inappropriate use is deemed to have occurred if the product or the accessories are used in any other way than that described in the section “Intended use”. Reasonably foreseeable inappropriate use includes the use of the product or the accessories in a manner not intended by the manufacturer or supplier but which may result from foreseeable human behaviour.

Reasonably foreseeable inappropriate use includes:

- The execution of any kind of modification, in particular constructive and process-technology related interventions.
- The suspension, bridging or non-application of existing or recommended safety equipment.
- Use for filtering wastewater other than compressor condensate (e.g., industrial wastewater).
- Disposal of waste oils.
- Using the product on water vessels, railway vehicles and motor vehicles.

This list is not exhaustive as not all possible inappropriate use can be foreseen in advance. If the operating company is aware of any inappropriate use of the product or accessories which are not listed here, the manufacturer must be informed immediately.

2.2 Responsibility of the operating company

The responsible operating company must ensure the following to prevent accidents, incidents and adverse effects on the environment:

- Before all actions, check to ensure that the manual available does in fact belong to the product.
- The product and the accessories are used, serviced and repaired in accordance with the intended use.
- The product and accessories are only used with the recommended and fully operable safety equipment.
- All assembly, installation and maintenance work must be carried out exclusively by qualified skilled technical personnel.
- Personnel have the necessary personal protective equipment available and also use this equipment.
- Suitable technical safety measures are taken so that the permissible operating parameters are adhered to.
- Keep all safety symbols and the type plate on the product and accessories in a legible state. Replace damaged and illegible markings immediately.
- All locally applicable legal requirements and regulations regarding the protection of bodies of water, as well as the associated mandatory documentation obligations (e.g., results from turbidity test, retention periods), must be complied with.

2.3 Target group and personnel

This manual addresses the personnel listed below who are involved with work on the product or the accessories.

INFORMATION	Personnel requirements
	• Minors are strictly prohibited from working with and on the product and its accessories. • The personnel may not execute any actions on the product or the accessories when they are under the influence of drugs, medications, alcohol or other substances that may impair their consciousness.

Operating personnel

Operating personnel are persons who are able to operate the product and the accessories safely on the basis of knowledge of the manual and instruction at the product and accessories. Operating personnel can recognise possible malfunctions and dangerous situations independently and arrange for corresponding measures.

Skilled technical personnel - transport and storage

Skilled technical personnel - transport and storage are people who, due to their training, professional experience and qualifications, have all the necessary skills to safely execute all actions in connection with the transport and storage of the product, to instruct, to recognise possible dangerous situations independently and to execute measures to avoid danger.

The skills required include, in particular, experience operating hoists, forklifts and lifting equipment and familiarity with locally applicable laws, standards and guidelines relating to transport and storage.

Skilled technical personnel - pressure equipment and systems

Skilled technical personnel specialising in pressure equipment and systems are people who, as a result of their training, professional experience, qualifications and further training, have all the requisite skills to safely perform all actions related to pressurised fluids and systems, to instruct, to independently identify potentially hazardous situations, and to implement appropriate measures to avert any danger.

The skills required include, in particular, experience using measuring equipment and control equipment, as well as familiarity with locally applicable laws, standards and regulations for pressurised systems.

Skilled technical personnel - product servicing

Skilled technical personnel - product servicing are people who have the skills and qualifications stated in all the skilled personnel definitions named above. Skilled technical personnel - product servicing must have documented proof of training and authorisation for all work on the product.

2.4 Explanation of the symbols used

The symbols used below indicate safety-relevant and important information which must be adhered to when handling the product and to ensure safe and optimum operation.

Symbol	Description / Explanation
	General warning symbol (danger, warning, caution)
	Warning: pressurised system
	Warning: electric voltage
	Read and understand the installation and operation manual
	General mandatory requirement
	Wear safety footwear
	Use protective gloves (cut-proof and liquid-resistant)
	Wear safety goggles with side shields
	General information

2.5 Safety instructions and warning notices

This section provides an overview of all the important safety aspects for personal protection as well as for the safe and problem-free operation of the product and accessories.

The following sections list the dangers posed by this product and the accessories even with intended use. To minimise the risk of personal injury and damage to property and to avoid dangerous situations, observe the safety instructions listed and adhere to the warning notices in the other sections of this manual.

Basic warning notices and the necessary qualifications of skilled technical personnel are always listed at the beginning of the section in the “Warning notices“ section.

Warning notices related to specific actions are printed directly before potentially hazardous procedures or sequences of actions.

Failure to observe safety instructions and warning notices can result not only in personal injury, but also in malfunctions, device failure and damage to property.

2.5.1 Basic safety instructions

- Before starting work, refer to the technical documentation for the entire system and observe the overall operating instructions.
- Carry out a risk assessment before starting work on site (last minute risk assessment).
- Use suitable personal protective equipment for all work.
- Set up a safety area around the working area during all installation, maintenance and repair work.
- Use existing system-specific protection procedures (e.g., LOTO procedure) in order to safely de-energise and isolate the system or system sections.

2.5.2 Safe operation

The following actions may result in serious injury or death:

- Commissioning and operation of the product and accessories outside the permissible limit values and operating parameters
- Unauthorised interference and unauthorised modifications of the product and accessories

To guarantee the safe operation of the product and accessories, observe the following:

- Observe the limits and operating parameters specified on the type plate and in the manual.
- Check whether the permissible operating parameters have been changed or restricted by the use of accessories.
- Observe the requirements regarding installation location and ambient conditions.
- Adhere to the maintenance intervals.

2.5.3 Sudden escape of pressurised fluids

The following situations may result in serious injury or death:

- Contact with fast or suddenly escaping fluids
- Bursting system parts
- Pressurised hose and pipe whipping as a result of disconnection

For the safe handling of pressurised systems, observe the following:

- Observe the following safety rules during all work:
  1. Shut down the system or system section.
  2. Secure the system or system section against restarting.
  3. Reduce the pressure in the system or all system sections to the ambient pressure, e.g., by slowly relieving the pressure through relief valves in a controlled manner.
  4. Lock out and tag out the system or system section so that it cannot be pressurised again.
- Check the pressurised system or system section for safety, contamination and possible damage.
- Before pressurisation, check all system connections for leak tightness and tighten if necessary.
- Make absolutely sure to charge the system or system section with pressure slowly.
- Avoid pressure blows and high differential pressures.
- Compensate any vibrations occurring in the pipe network by using vibration dampers.
-

2.5.4 Transport and storage

Inappropriate transport or storage may result in personal injury or damage to property.

In order to ensure safety during the transport and storage of the product and accessories, observe the following:

- Use personal protective equipment during all work with packaging material.
- Handle packaging, the product and accessories carefully.
- Transport and handle the product and accessories according to the markings on the packaging.
- Use only suitable transportation, lifting and lashing equipment that is in good working condition and rated for the product's total weight.
- Always adhere to the permissible transport and storage parameters.
- Store the product and accessories only outside of areas exposed to direct sunlight, heat sources and splash water.

2.5.5 Installation

Inappropriate assembly or electrical installation of the product and accessories may result in personal injury and damage to property as well as impair operation.

For safe assembly and electrical installation, observe the following:

- Assemble the product and all the parts, accessories and materials used free of mechanical stress.
- Check all plug-type connections for a correct fit.
- Avoid stumbling risks by routing cables and hoses accordingly.
- Avoid mechanical strain on the cables.
- Fix and fasten hoses in such a way that they cannot flap around.
- Install inlet and drain lines as fixed pipes.

2.5.6 Maintenance

Improperly carrying out maintenance and repair work may result in serious injury or death.

For safe maintenance and repairs, observe the following:

- Before starting work, depressurise the pressurised product and accessories and secure them against unintentional pressurisation.
- Before starting work, isolate the product and accessories from the power source and secure them against being switched back on again unintentionally. Only use materials approved for the respective application.
- Use only suitable tools that are in proper working order.
- Only use cleaned pipes and hoses that are free of dirt and corrosion.
- Never use abrasive or aggressive cleaning agents or solvents which could damage the outer coating (e.g. markings, type plate, corrosion protection, etc.).
- Never clean the device with hard or pointed implements.
- Use only the specified materials and media for cleaning.
- Observe statutory, local and in-house hygiene regulations.
- Pay attention to order and cleanliness during maintenance and repair work. Prevent contamination from entering the opened product or accessories. Put dismounted components and accessories aside in a safe place immediately after dismounting.
- After completing maintenance and repair work, remove all tools and cleaning agents used, as well as all parts that are no longer needed, from the work area.
- Only dispose of the product and accessories when cleaned and freed of any media residue.
- Dispose of all components, parts, operating and auxiliary materials as well as cleaning agents professionally and in accordance with all locally applicable legal requirements and regulations.
- Dispose of electrical and electronic components using a specialist disposal company or return them to manufacturer.

2.5.7 Handling hazardous substances

Contact with condensate containing substances which endanger health and the environment can pose a health hazard, causing irritation and/or damage to the eyes, skin and mucous membranes. In addition, contaminated condensate must be prevented from entering the sewage system, bodies of water or the ground.

For the safe handling of contaminated condensate, observe the following:

- Use suitable personal protective equipment when handling condensate.
- Collect and dispose of any leaking or spilled condensate in accordance with locally applicable legal requirements and regulations.

2.5.8 Use of spare parts, accessories or materials

Use of incorrect spare parts, accessories, materials, auxiliary and operating materials, may result in death or serious injury. Malfunction, device failure or material damage may occur.

- Only use undamaged original parts, auxiliary and operating materials which are specified by the manufacturer to complete all work.
- Only use the materials approved for the respective application and suitable tools in proper working order.
- Only use cleaned pipes that are free of dirt and corrosion.
- Only use electric components and materials that comply with locally applicable legal requirements and regulations (standards, directives etc.) for electrical safety.

2.6 Warning notices

Warning notices warn against dangers when handling the product and accessories.
Observe the warning notices in order to avoid personal injury, damage to property and impaired operation.

Elements used in warnings:

SIGNAL WORD	Type and source of danger
 Symbol	Possible consequences if the danger is ignored • Measures to prevent the danger

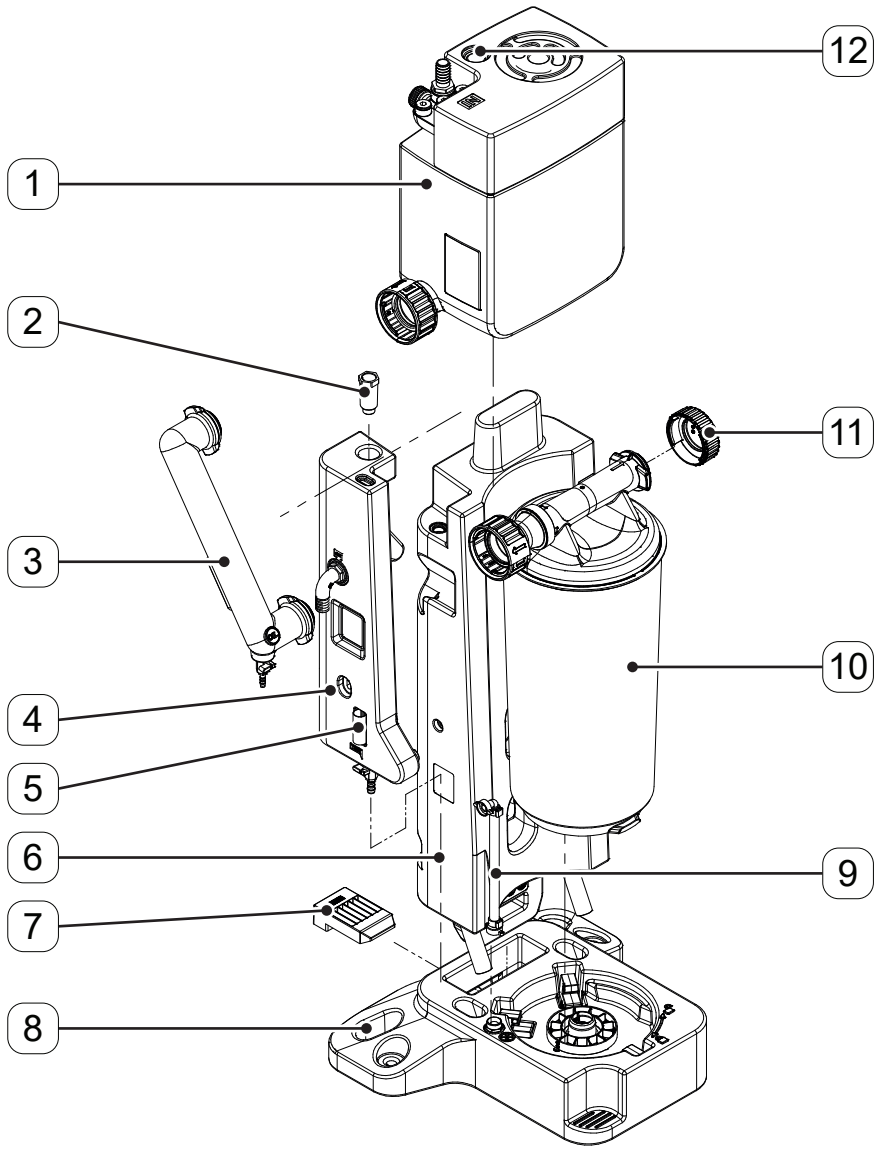
Signal words:

DANGER	**Imminent hazard** Consequences of non-compliance: Death or serious personal injury
WARNING	**Imminent hazard** Consequences of non-compliance: Death or serious personal injury are possible
CAUTION	**Potential hazard** Consequences of non-compliance: Personal injury or damage to property are possible
NOTE	**Additional notes** Consequences of non-compliance: Damage to property, malfunction and device failure are possible. No hazard to people or jeopardising of safe operation.

3. Product information

3.1 Product overview

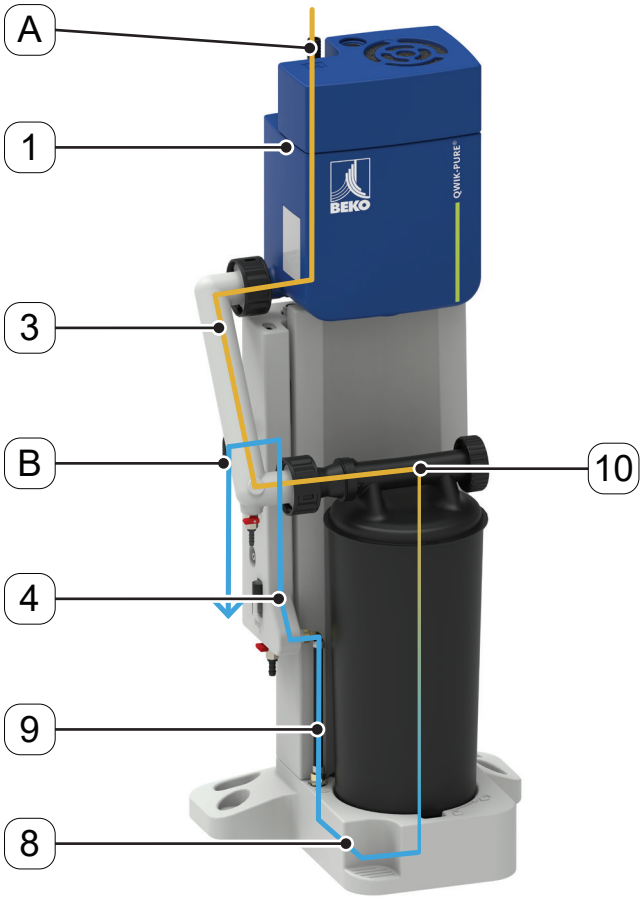
3.1.1 QWIK-PURE® 10



No.	Description / explanation
[1]	Pressure relief chamber
[2]	Fixing screw
[3]	Connecting pipe
[4]	Clean water tank
[5]	Reference turbidity tube
[6]	Foot

No.	Description / explanation
[7]	Locking device
[8]	Collector
[9]	Riser duct
[10]	Filter cartridge
[11]	End cap
[12]	Level indicator

3.2 Function description



The condensate is fed from the condensate collection line via the condensate inlet **[A]** into the pressure relief chamber **[1]**. In the pressure relief chamber **[1]**, entrained compressed air is separated before the condensate flows through the connecting pipe **[3]** into the filter cartridge **[10]**.

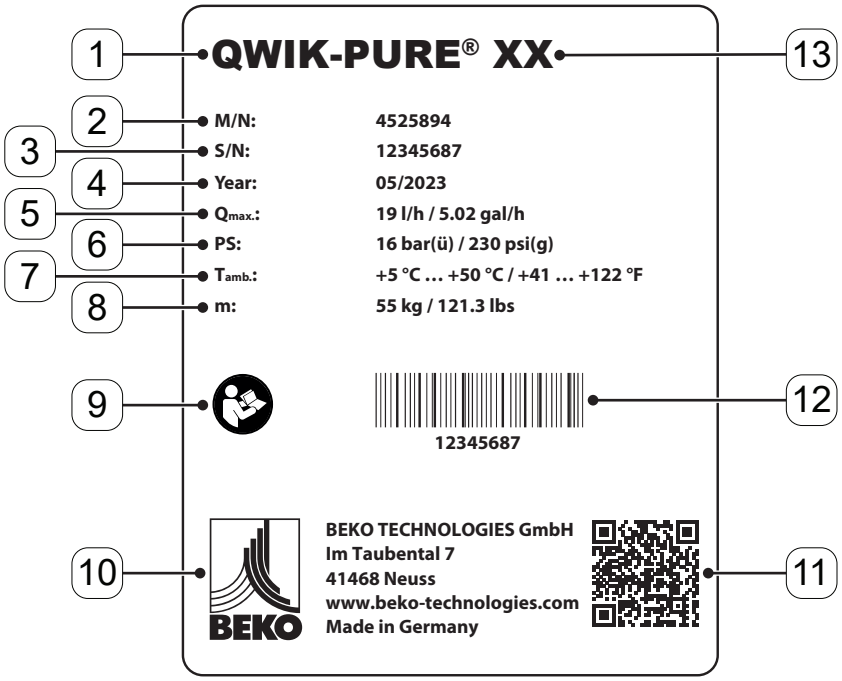
The condensate flows through the filter cartridge **[10]** into the collector **[8]**.

The purified condensate is fed from the collector **[8]** via the riser duct **[9]** into the clean water tank **[4]**. The purified condensate is conveyed into the wastewater connection through the condensate drain **[B]** of the clean water tank **[4]** .

If the filter cartridge **[10]** is saturated with oil, the filter cartridge **[10]** will need to be replaced (see section “9.3.2 Replacing filter cartridges” on page 43).

A level indicator **[12]** is integrated into the pressure relief chamber **[1]**. If the filling level in the pressure relief chamber **[1]** rises as a result of impaired condensate flow (see section “14. Troubleshooting” on page 66), the level indicator **[12]** will be pushed up so that the red marking on the level indicator **[12]** will become visible.

3.3 Type plate



No.	Description / explanation
[1]	Product name
[2]	Material number
[3]	Serial number
[4]	Month and year of manufacture
[5]	Maximum condensate flow rate
[6]	Maximum operating pressure
[7]	Ambient temperature
[8]	Weight
[9]	“Read and understand the installation and operation manual” instruction symbol
[10]	Manufacturer contact information
[11]	QR code for downloading the product-specific documentation
[12]	Bar code
[13]	Size (e.g. 10)

3.4 Scope of delivery

The installation size and further delivery details are specified in the contractual documents.

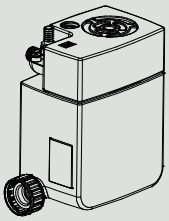
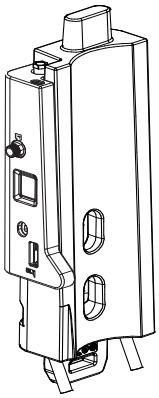
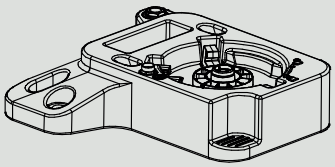
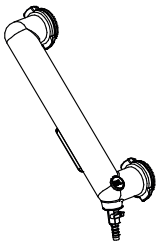
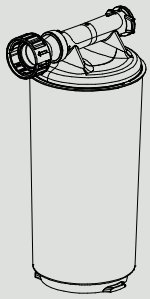
Illustration	Description / explanation
	Quick Start Guide
	Pressure relief chamber
	Foot
	Collector 1 x 1 filter cartridge
	Connecting pipe

Illustration	Description / explanation
	Filter cartridge
	Elbow connector with union nut and flat gasket
	Fixing screw
	Riser duct
	End cap
	Locking device, foot
	Reference turbidity tube 5 mg/l (5 ppm) / 10 mg/l (10 ppm)

4. Technical data

4.1 Operating parameters

Parameter	QWIK-PURE® 10
Relative ambient air humidity	≤10 ... 80%, without condensation
Maximum operating altitude above sea level[*1]	2000 m 2187.23 yd
Maximum operating pressure at condensate inlet	16 bar(g) 230 psi(g)
Minimum / maximum operating temperature, fluids and environment	+5 ... +50 °C +41 ... +122 °F
Maximum condensate flow rate[*2]	12.7 l/h 3.36 gal/h
Connection, condensate inlet	3 x G1/2", male, 1 x G1", male, Hose connection: 1 x 25 mm (0.98 in) male, 1 x 13 mm (0.52 in) male
Connection, condensate drain	25 mm (0.98 in), male Hose connection
Media	Compressor condensate, oil-contaminated
Maximum operating weight	50 kg 110.2 lbs
Maximum oil concentration at condensate outlet [*2]	10 mg/l 10 ppm

4.2 Storage parameters

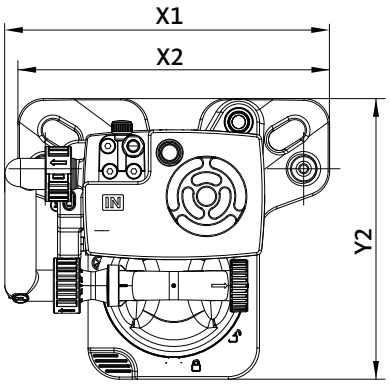
Parameter	QWIK-PURE® 10
Minimum / maximum temperature	+5°C ... +50°C (+33.8°F ... +122°F)
Relative ambient air humidity	≤10 ... 80%, without condensation
Empty weight	13.5 kg 29.8 lbs

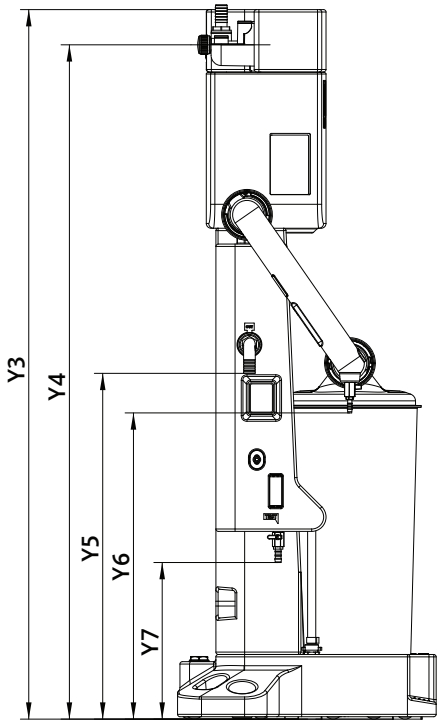
1 Can be operated up to a maximum of 3000 m (3280.84 yd) above sea level
2 In compliance with the standardised reference conditions issued by the Deutsches Institut für Bautechnik (DIBt / German technical approval body for the construction sector)

4.3 Materials

Component	Material
Filter cartridge	Plastic blend and cellulose
Pressure relief chamber	PE
Condensate inlet	PA/PP/VA
Connecting pipe	PE
Clean water tank	PE
Foot	PE
Collector	PE

4.4 Dimensions

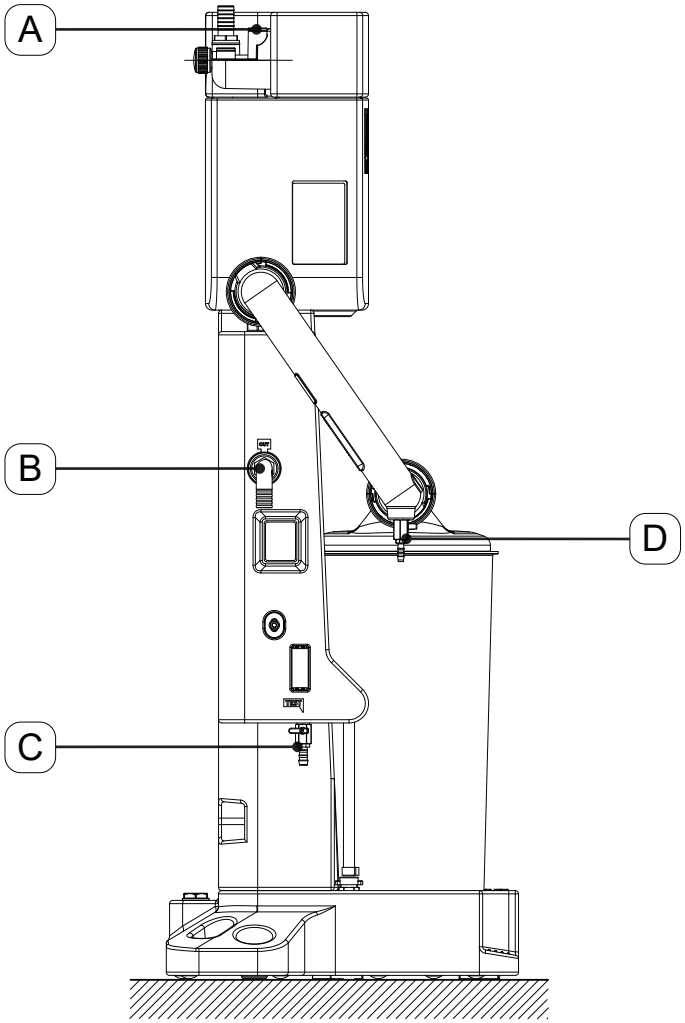




No.	[mm]	[in]
[X1]	625	24.61
[X2]	600	23.62
[X3]	--	--
[Y1]	--	--
[Y2]	540	21.26

No.	[mm]	[in]
[Y3]	1482	58.35
[Y4]	1408	55.43
[Y5]	722	28.43
[Y6]	639	25.16
[Y7]	327	12.87

4.5 Connections

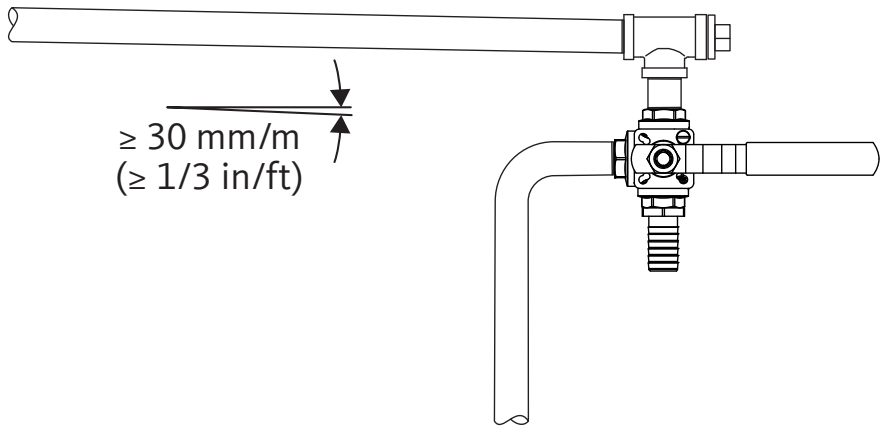


No.	Connection	Quantity	Description / explanation
[A]	25 mm (0.98 in)	1	Hose connection, connection for the condensate inlet
	13 mm (0.52 in)	1	Hose connection, connection for the condensate inlet
	G1/2"	2	Connection for the condensate inlet
[B]	25 mm (0.98 in)	1	Elbow connector, connection for draining the purified condensate
[C]	12 mm (0.47 in)	1	Service valve and hose connection
[D]	12 mm (0.47 in)	1	Drain valve with hose connection

4.6 Installation conditions

Observe the following conditions when setting up and selecting the place of installation:

- The place of installation must meet the following conditions:
  - → Indoors
  - → Protected from mechanical loads
  - → Protected from splash water
  - → Protected from direct sunlight and areas exposed to heat sources
  - → Protected from frost
  - → Outside of hazardous locations
- The setup area must be level (gradient ≤10 mm/m (1/8 in/ft)) and smooth.
- The setup area's load capacity must be suitable for the maximum operating weight of the product (see section "4.1 Operating parameters" on page 20).
- The setup area must be sealed, or a suitable spill protection basin must be in place.
  - → In the event of damage, no untreated condensate or oil may get into the sewer system or the soil.
  - → All locally applicable legal requirements and regulations regarding the protection of bodies of water must be complied with.
- Bumper guards must be installed if the product is being set up in the vicinity of traffic routes.
- A compressed air supply line provided by the customer must be available and equipped with a maintenance unit (pressure reducer and filter).
- The cross-sectional area of the condensate collection line must be greater than G1" (Ø = 25 mm).
- Route the condensate collection line with a gradient ≥30 mm/m (2/3 in/ft) to the place of installation for the product.
- The manufacturer recommends installing a P-trap at the wastewater connection in order to prevent unpleasant odours.
- The manufacturer recommends installing a 3-way valve at the tapping point on the condensate collection line to divert the condensate inlet into a separate container during maintenance work.
- Provide a circuit breaker in the power supply within easy reach of the product. The circuit breaker disconnects all current-carrying conductors.



Example illustration

5. Transport and storage

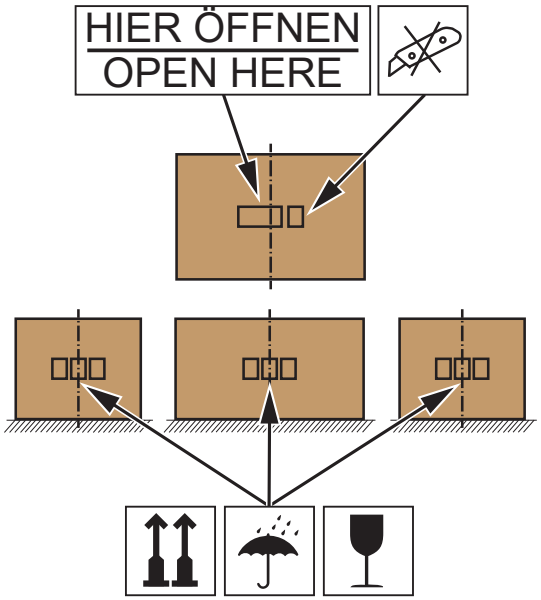
Personnel
Skilled technical personnel - transport and storage (see section “2.3 Target group and personnel” on page 8)

5.1 Warning notices

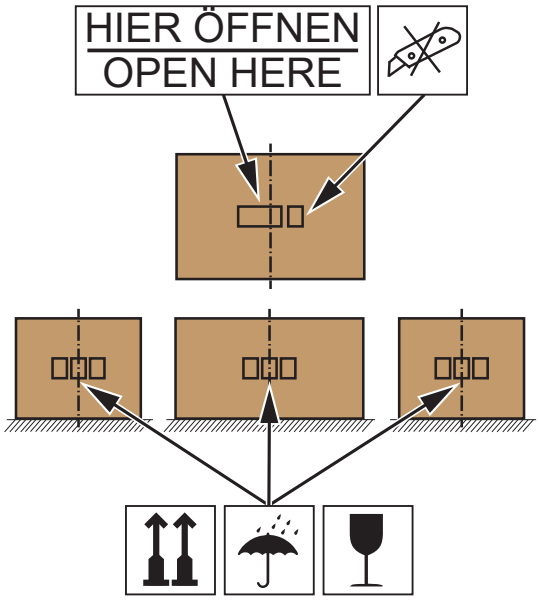
CAUTION	Inappropriate transport or storage
	Inappropriate transport or storage may result in personal injury.
	• Use personal protective equipment during all work with packaging material. • Handle packaging, the product and accessories carefully. • Use only proper transportation, lifting and lashing equipment that is in proper working order.

NOTE	Handling packaging material
	Inappropriate disposal of packaging materials can cause environmental damage.
	• Dispose of the packaging material in accordance with the applicable legal requirements and provisions of the country and place of use.

5.2 Transport

Transport steps	
Illustration	Description / explanation
	• Only transport the product and accessories in their original packaging or packed using suitable shockproof material. • Transport and handle the product and accessories according to the markings on the packaging. • Secure the product and accessories in an upright position on a pallet so that they will not fall or shift during transportation. • Do not tilt the product or the accessories.

5.3 Storage

Storage steps	
Illustration	**Description / explanation**
	• Only store the product and accessories in their original and undamaged packaging. • Adhere to the storage conditions in section “4.2 Storage parameters”. • The storage location is dry, frost-free and lockable. • Protect the product and accessories from external weather influences, direct sunlight and sources of heat. • Secure the product and accessories at the storage location so that they will not topple over or vibrate.

6. Assembly

Personnel
Skilled technical personnel - pressure equipment and systems (see section “2.3 Target group and personnel” on page 8)

6.1 Warning notices

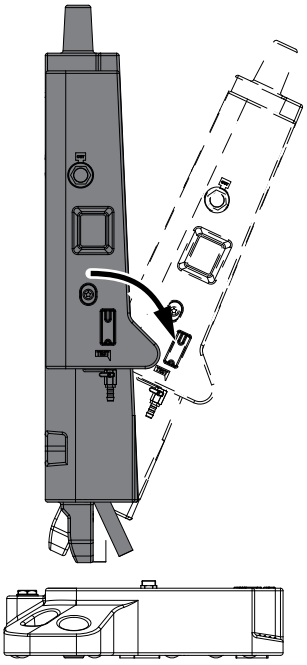
DANGER	Sudden escape of pressurised fluids
	There is a danger of death or serious personal injury resulting from contact with fast or suddenly escaping fluids or through bursting system parts.
	• Before starting work, depressurise the pressurised system and secure it against unintentional pressurisation. • Assemble all pipes and hoses free of mechanical stress.

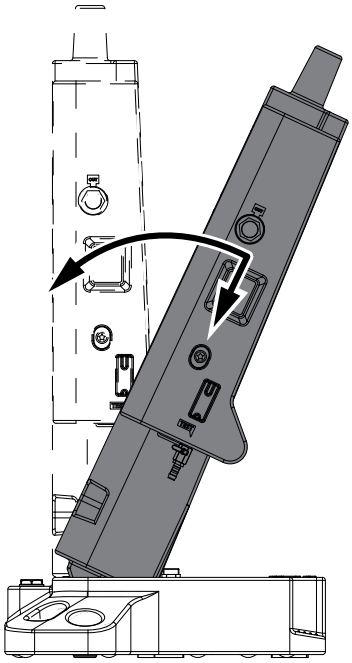
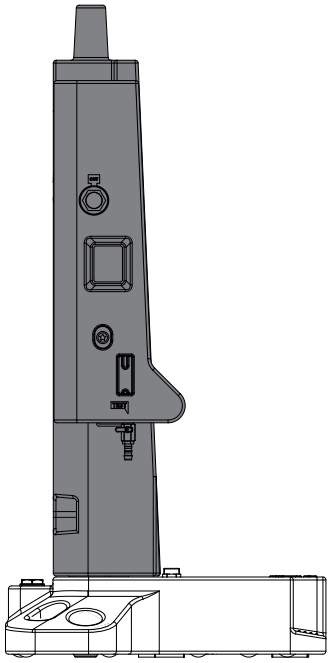
6.2 Assembly work

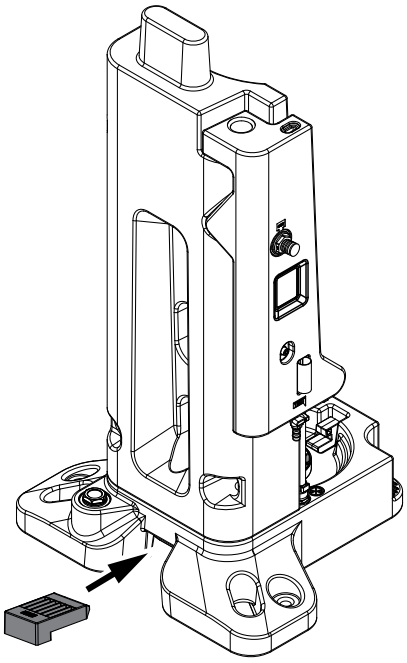
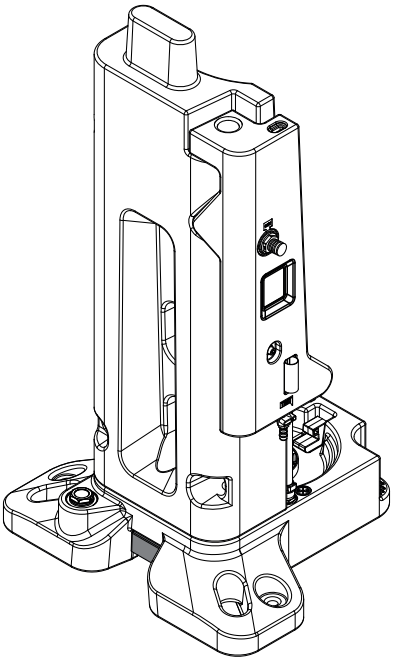
For assembly work to be carried out, the following prerequisites must be fulfilled and the preparatory tasks must have been completed.

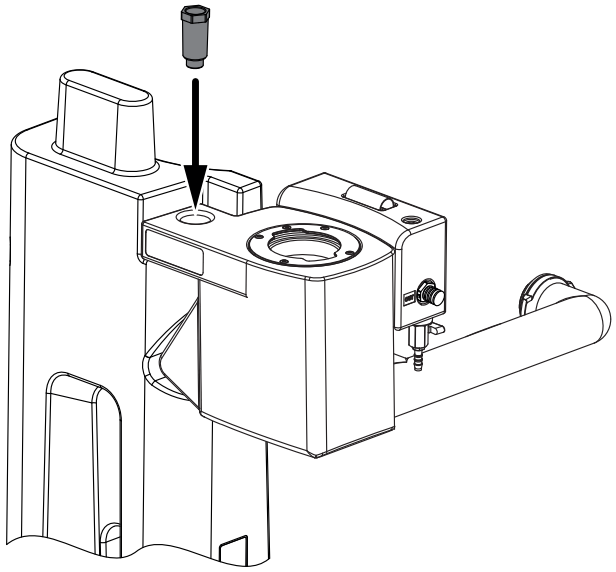
Prerequisites		
Tools	**Material**	**Protective equipment**
• Adjustable spanner • Water pump pliers • Spirit level	• Sealing material (e.g. PTFE tape) for sealing the condensate connections provided by the customer • Hose clamps • Hose for condensate	**Always to be worn:** 

Preparatory tasks	
1.	Select and set up the installation location according to the specifications in section “4.6 Installation conditions” on page 23.
2.	The condensate inlet line provided by the customer must be depressurised and locked and tagged out to prevent unintentional pressurisation.
3.	Have the necessary tools and materials ready.
4.	Prepare the required connection materials suitable for the pressure and temperature range.
5.	Check the product for damage. Only use the product in an undamaged state.

Assembly work	
Illustration	**Description / explanation**
	1. Position the collector on a flat surface. 2. Align the foot with the positioning tubes facing downwards and position it over the assembly opening. 3. Tilt the upper end of the foot towards the filter cartridge holder until the positioning tubes are vertical.

Assembly work	
Illustration	**Description / explanation**
	4. Carefully insert the foot into the installation openings while straightening it at the same time.
	

Assembly work	
Illustration	**Description / explanation**
	5. Align the locking device with the heel facing downwards and insert it into the locking device opening in the collector.
	6. Press the locking device into the locking device opening as far as it will go.

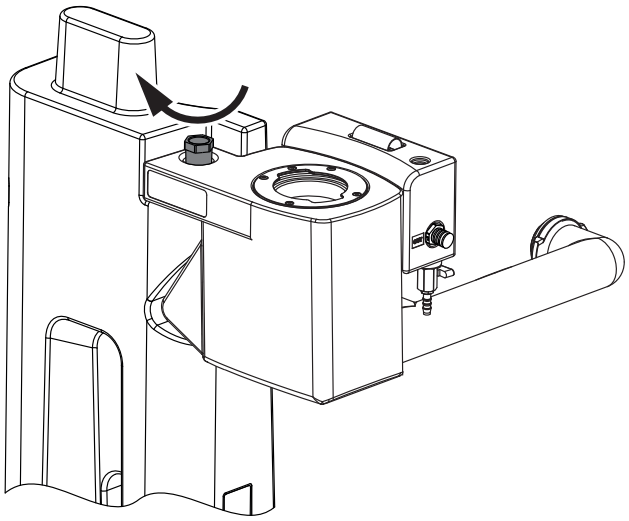
Assembly work	
Illustration	**Description / explanation**
	7. Insert the fixing screw into the fixing hole of the clean water tank.

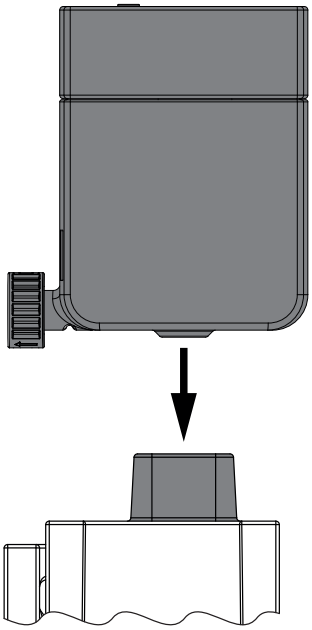
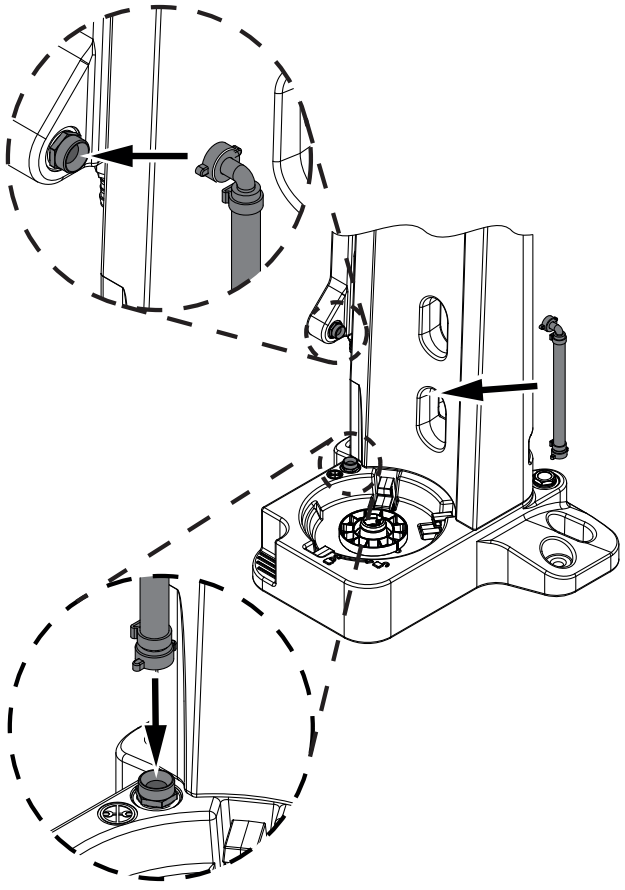
NOTE

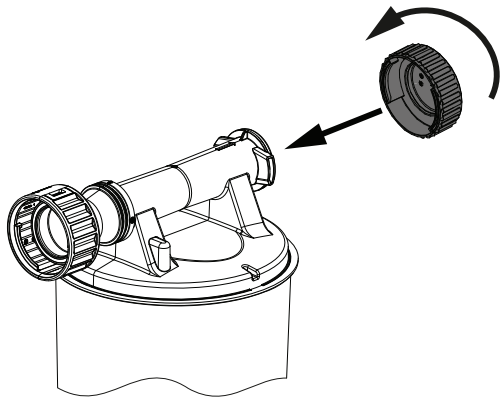
Thread overloading

Using tools to tighten the fixing screw, or tilting it when positioning it, can overload the thread on the fixing screw and in the foot and cause serious damage (e.g., plastic parts breaking, the thread being pulled out).

- Place the fixing screw vertically and screw it in.
- Tighten the fixing screw by hand only.

	8. Screw in the fixing screw clockwise by hand all the way and tighten hand-tight.

Assembly work	
Illustration	**Description / explanation**
	9. Place the pressure relief chamber on the foot. → Align the connection in the direction of the clean water tank.
	10. Install the riser duct between the collector and the clean water tank. → Place the riser duct's straight fitting on the connection in the collector and tighten it clockwise by hand. → Place the riser duct's elbow fitting on the connection of the clean water tank and tighten it clockwise by hand.

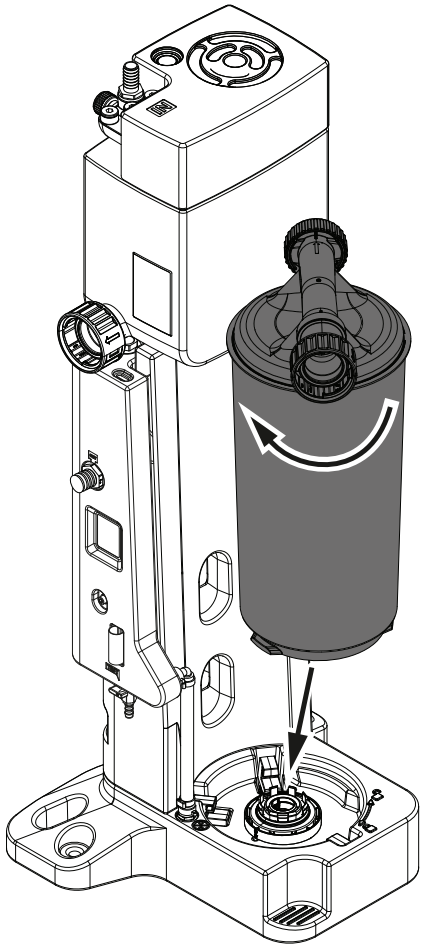
Assembly work	
Illustration	**Description / explanation**
	11. Place the end cap on the filter cartridge and turn it clockwise all the way.

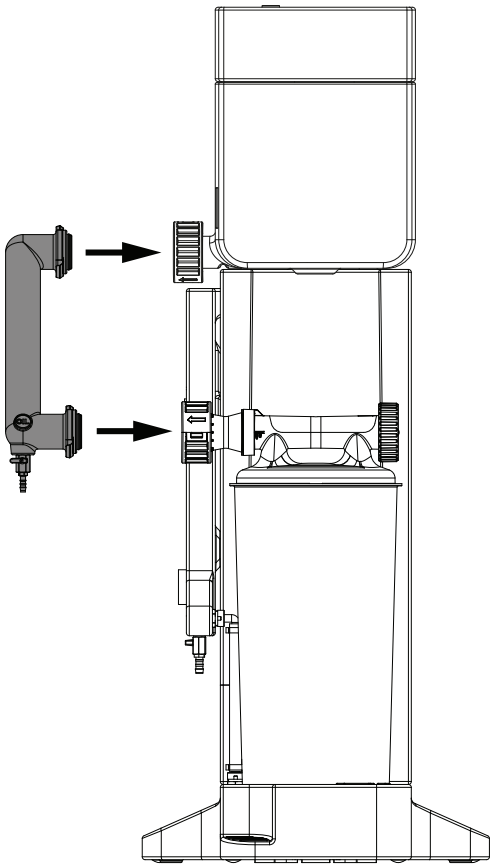
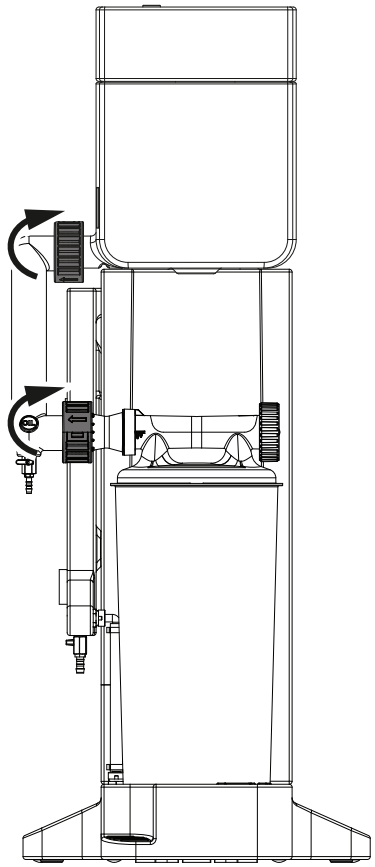
NOTE

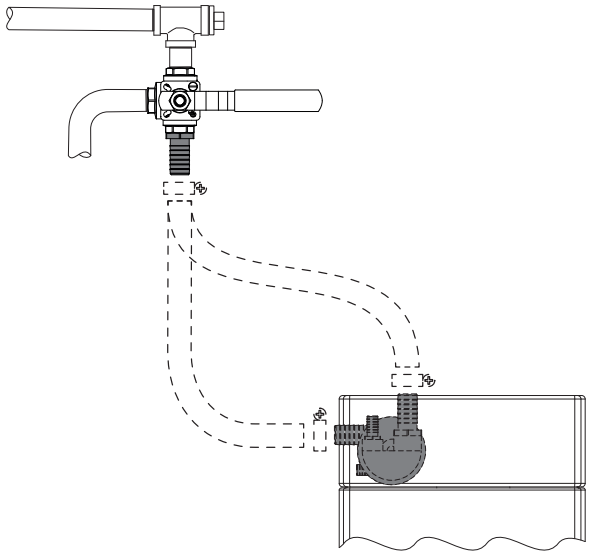
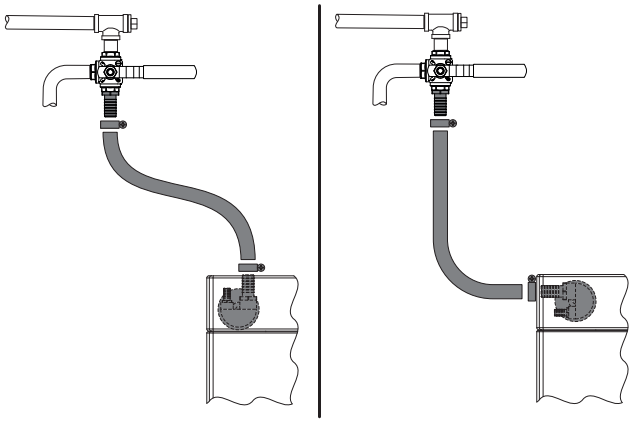
Filter cartridge insertion

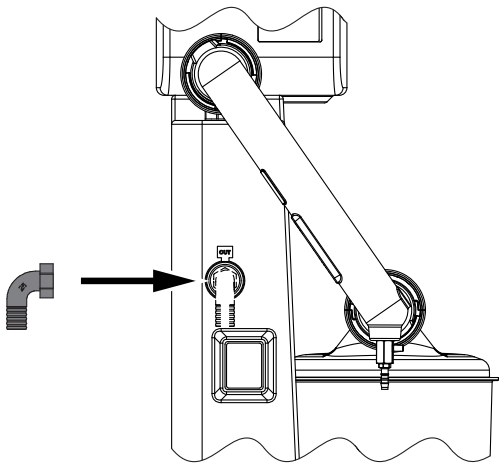
Use of incorrect filter cartridges or incorrect insertion of the filter cartridges can cause damage or leakage to the collector and the filter cartridges.

- Before inserting the filter cartridges, check to make sure that the filter cartridge is the right one for the product.
  - → The colour of the cap at the bottom of the filter cartridge must be identical to the colour of the cap in the collector.
- Insert the filter cartridges vertically and carefully into the collector.

	12. Insert the filter cartridge into the mount on the foot with the bayonet mount facing the clean water tank. 13. Turn the filter cartridge clockwise all the way.

Assembly work	
Illustration	**Description / explanation**
	14. Check the sealing surfaces in the connecting pipe for damage and impurities. → Remove any dirt. → If there is any damage, contact the manufacturer's customer service department (see section "1.1 Contact" on page 4). 15. Insert the connecting pipe into the connection for the pressure relief chamber. → Point the connecting pipe's drain valve downwards. 16. Align the connecting pipe's connection with the filter cartridge's connection. 17. Insert the connecting pipe into the filter cartridge connection.
	18. Slide the bayonet mounts over the connections and turn them all the way clockwise.

Assembly work	
Illustration	**Description / explanation**
NOTE 	**Damage due to incorrect hose routing** Incorrect hose routing can result in property and environmental damage, as well as impaired operation. • Route all hoses in the shortest possible way. • Install all hoses in such a way that they are free of mechanical stress and without any kinks. • Lay all hoses in such a way that no mechanical stresses are transferred to the condensate inlet and the minimum bending radii of the respective hose are observed. • Do not lay the hoses in a slack manner (sagging).
	19. Set up the assembled **QWIK-PURE®** offset from the tapping point. → For optimal hose routing, the knurled screw can be loosened in order to rotate the condensate inlet up to 90 degrees by hand. After turning it, tighten the knurled head screw hand-tight.
	20. Connect the tapping point with the condensate inlet of the pressure relief chamber with a hose and secure it against slipping with a hose clamp. → Do not lay the hose in a slack manner (sagging). 21. Tighten the hose clamps hand-tight.

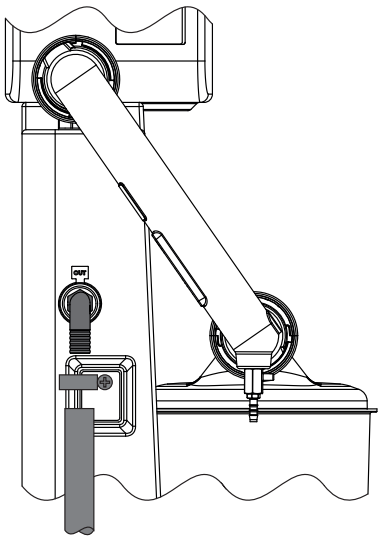
Assembly work	
Illustration	**Description / explanation**
	22. Screw the supplied elbow connector with the mounted flat gasket clockwise as far as it will go onto the condensate outlet of the product and position it so that the outlet of the elbow connector is pointing downwards.

NOTE

Overflow of the clean water tank

If there is no gradient towards the wastewater system connection, or if there are cross-sectional constrictions in the water outlet hose, this can lead to the clean water tank overflowing.

- The connection to the wastewater system is located below the condensate outlet.
- Route the water outlet hose with a steady slope and without any kinks to the connection to the wastewater system.

	23. Attach a water outlet hose to the angled elbow connector on the condensate drain and secure it against slipping off with a hose clamp. 24. Tighten the hose clamp hand-tight. 25. Route the water outlet hose with a steady slope and without any kinks to the connection to the wastewater system.

Final steps	
1.	Before pressurisation, check all system connections for leak tightness and tighten if necessary.
2.	Slowly pressurise the system.

7. Commissioning

Personnel
Skilled technical personnel - pressure equipment and systems (see section “2.3 Target group and personnel” on page 8)

7.1 Warning notices

DANGER	Sudden escape of pressurised fluids
	There is a danger of death or serious personal injury resulting from contact with fast or suddenly escaping fluids or through bursting system parts.
	• Before pressurisation, check all system connections for leak tightness and tighten if necessary. • Slowly pressurise the system.

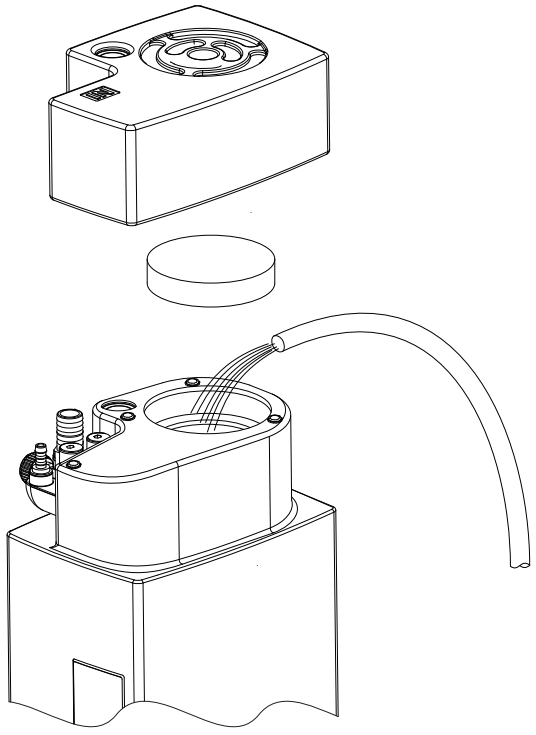
NOTE	Restricted function of the filter cartridges
	When the clean water tank’s ventilation opening is closed, the draining water produces a negative pressure in the clean water tank. This negative pressure will result in the condensate being sucked through the filter cartridges in an uncontrolled manner. This uncontrolled flow will reduce the performance of the filter cartridges.
	• Keep the clean water tank’s ventilation opening open.

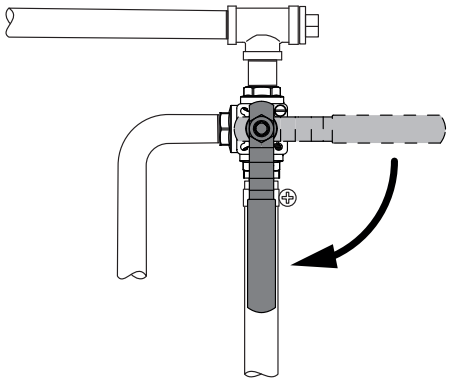
7.2 Initial commissioning

For initial commissioning be carried out, the following prerequisites must be fulfilled, and the preparatory tasks must have been completed.

Prerequisites		
Tools	**Material**	**Protective equipment**
• No tool necessary	• No material necessary	**Always to be worn:** 

Preparatory tasks	
1.	The product has been fully installed.

Commissioning steps	
Illustration	**Description / explanation**
	1. Remove the cover from the pressure relief chamber and remove the activated carbon mat from the vent of the pressure relief chamber. 2. Fill the pressure relief chamber with tap water via the vent. → Stop filling it as soon as water comes out from the condensate outlet. 3. Insert the activated carbon mat into the vent of the pressure relief chamber and place the cover on the pressure relief chamber.

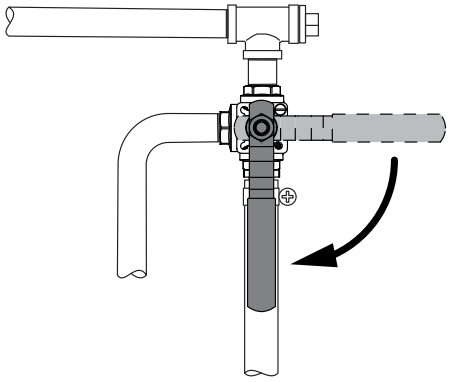
Commissioning steps	
Illustration	**Description / explanation**
	4. Slowly open the condensate feed. 5. Check all hoses and connections for leaks (see section “9.3.5 Leakage test” on page 53). 6. The commissioning procedure has been completed, and the condensate flowing into the product is being treated.

7.3 Recommissioning

For recommissioning work to be carried out, the following prerequisites must be fulfilled and the preparatory tasks must have been completed.

Prerequisites		
Tools	**Material**	**Protective equipment**
• No tool necessary	• No material necessary	**Always to be worn:** 

Preparatory tasks	
1.	The work or troubleshooting on the product has been completed.

Commissioning steps	
Illustration	**Description / explanation**
	1. Slowly open the condensate feed.

8. Operation

Personnel
Operating personnel (see section “2.3 Target group and personnel” on page 8)

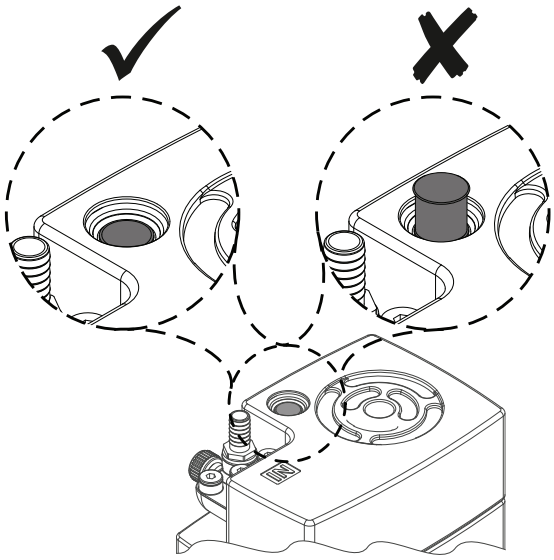
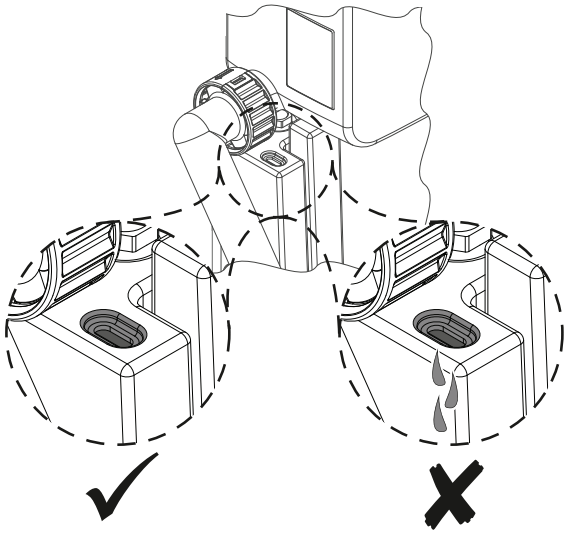
8.1 Warning notices

NOTE	Restricted function of the filter cartridges
	When the clean water tank’s ventilation opening is closed, the draining water produces a negative pressure in the clean water tank. This negative pressure will result in the condensate being sucked through the filter cartridges in an uncontrolled manner. This uncontrolled flow will reduce the performance of the filter cartridges.
	• Keep the clean water tank’s ventilation opening open.

8.2 Working during operation

Preparatory tasks	
1.	The product has been set up and connected to the condensate collection line and the drain.
2.	The commissioning procedure for the product has been completed.

Prerequisites		
Tools	**Material**	**Protective equipment**
• No tool necessary	• No material necessary	**Always to be worn:** 

Illustration	Description
	1. Check the level indicator. **The level indicator is flush with the pressure relief chamber:** → The product is working properly. **The level indicator's red marking is visible:** → The pressure relief chamber's maximum filling level has been reached. → The condensate flow has been disrupted (see section "14. Troubleshooting" on page 66).
	2. Check the clean water tank's ventilation opening. **The ventilation opening is dry:** → The product is working properly. **Water is coming out from the ventilation opening:** → The water drainage has been disrupted (see section "14. Troubleshooting" on page 66).

9. Maintenance

Personnel
Skilled technical personnel - product servicing (see section “2.3 Target group and personnel” on page 8)

9.1 Warning notices

DANGER	Sudden escape of pressurised fluids
	There is a danger of death or serious personal injury resulting from contact with fast or suddenly escaping fluids or through bursting system parts.
	• Before starting work, depressurise the pressurised system and secure it against unintentional pressurisation.

9.2 Maintenance schedule

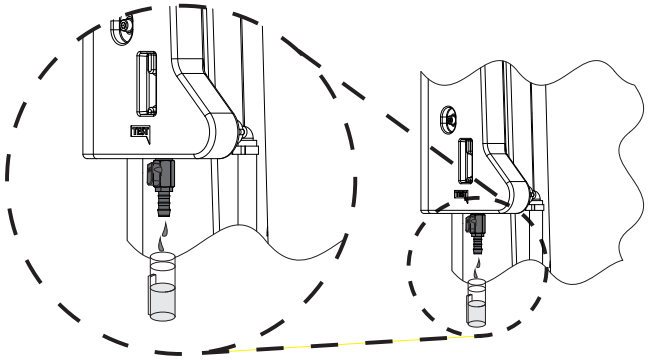
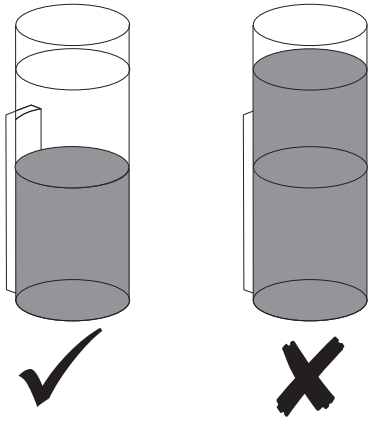
Maintenance	Interval
Turbidity test of wastewater and documenting the result	• Weekly
Changing the filter cartridges	• Mandatory in case of a negative result of the turbidity test • If the level indicator’s red marking is visible • At least annually
Clean assembly units	• As part of troubleshooting
Visual inspection	• Weekly
Leakage test	• Recommendation: After all assembly and maintenance work on the product

9.3 Maintenance work

For maintenance work to be carried out, the following prerequisites must be fulfilled and the respective preparatory tasks must have been completed.

9.3.1 Turbidity test of the purified condensate

Prerequisites		
Tools	**Material**	**Protective equipment**
• No tool necessary	• No material necessary	**Always to be worn:** 

Illustration	Description
	1. Remove the reference turbidity tube from the holder and fill it with a water sample from the service valve.
	2. Compare the sample with the reference turbidity on the lower half of the reference turbidity tube. **The sample is clearer than the reference turbidity:** → The product is working properly. **The sample is equally or more turbid than the reference turbidity** → Replace the filter cartridges immediately. 3. Document the result of the turbidity test.

NOTE	High condensate turbidity
	If the condensate discharged from the condensate outlet is highly turbid, clean the product. See section “9.3.3 Cleaning” on page 48.

9.3.2 Replacing filter cartridges

Prerequisites		
Tools	**Material**	**Protective equipment**
• No tool necessary	• Filter cartridges • Container for flushing • approx. 40 l tap water • Container for collecting used flushing water	**Always to be worn:** 

Preparatory tasks	
1.	Have the required number of new filter cartridges ready next to the product.
2.	Remove the plugs from the packaging of the new filter cartridges and place them near the product.

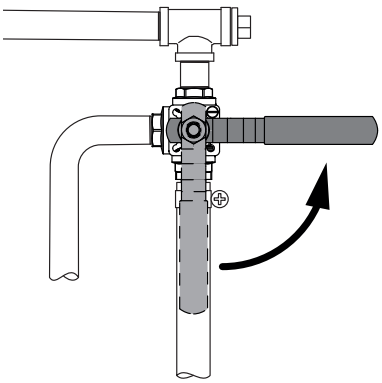
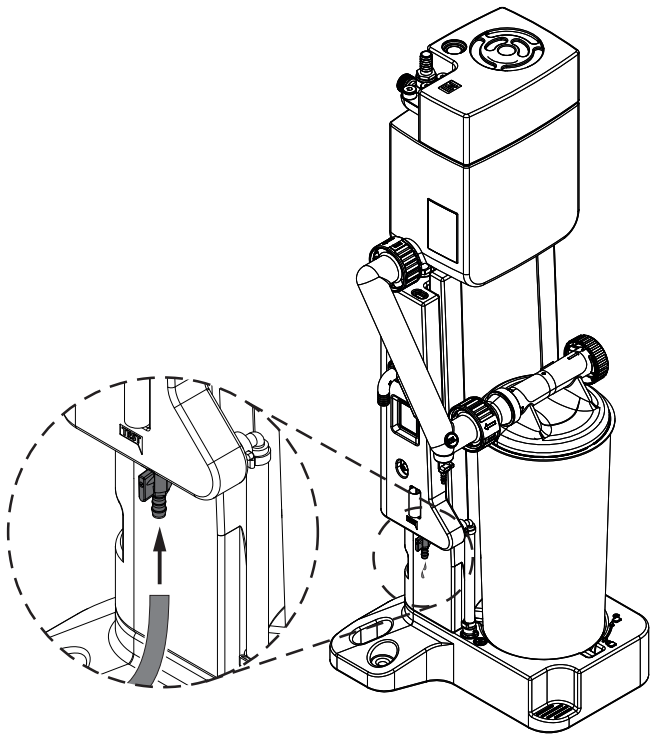
Illustration	Description / explanation
	1. Cut off the condensate feed to the product and divert the condensate into a separate container.
	2. Connect the service valve on the clean water tank to a collecting container and open the service valve. → Close the service valve the moment that condensate stops coming out.

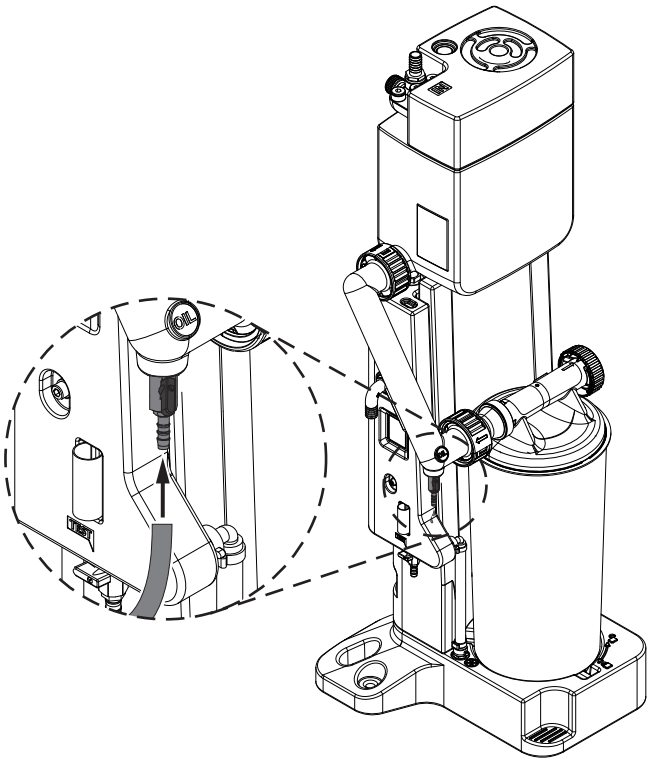
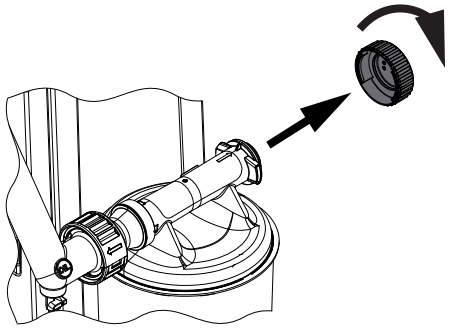
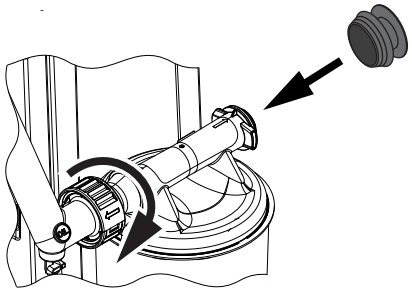
Illustration	Description / explanation
	3. Connect the drain valve on the connecting pipe to a collecting container and open the drain valve. → Close the drain valve the moment that condensate stops coming out. → Collect and dispose of any leaking or spilled condensate in accordance with locally applicable legal requirements and regulations.
	4. Turn the end cap on the filter cartridge anticlockwise and remove it. → Put the end cap to the side, as you will be screwing it back onto the new filter cartridge.
	5. Use the plug to seal the filter cartridge.

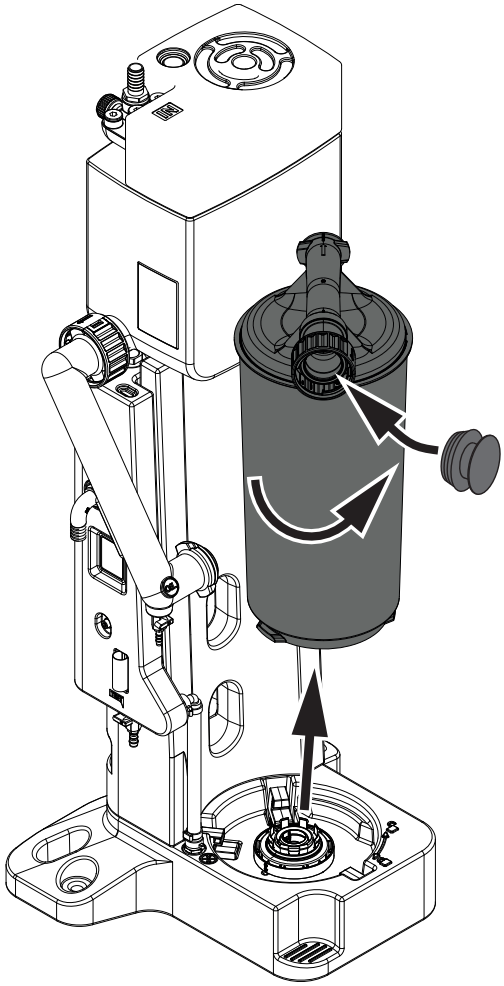
Illustration	Description / explanation
CAUTION 	**Lifting heavy loads** Lifting the full filter cartridge in an ergonomically incorrect manner can result in personal injury. • Lift the full cartridge in an ergonomically correct manner close to your body. • Use two people to lift the full cartridge over obstacles.
	6. Turn the bayonet mount of the filter cartridge anticlockwise and pull it off from the connection at the measuring chamber outlet. 7. Turn the filter cartridge 45 degrees anticlockwise and seal it with the plugs. 8. Lift the filter cartridge out of the collector and dispose of it properly (see section “13. Disposal” on page 64). 9. Check the sealing surface of the connecting pipe connection for damage and dirt. → Remove any dirt. → If there is any damage, contact the manufacturer’s customer service department (see section “1.1 Contact” on page 4).

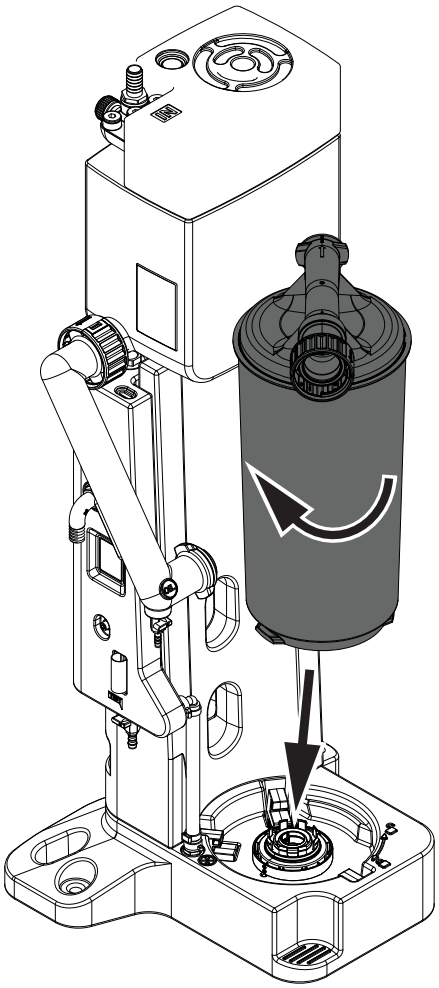
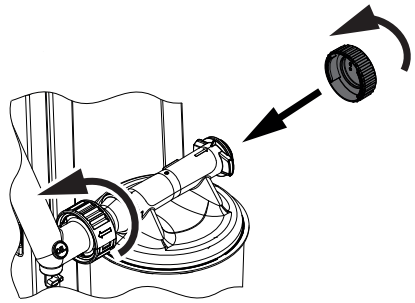
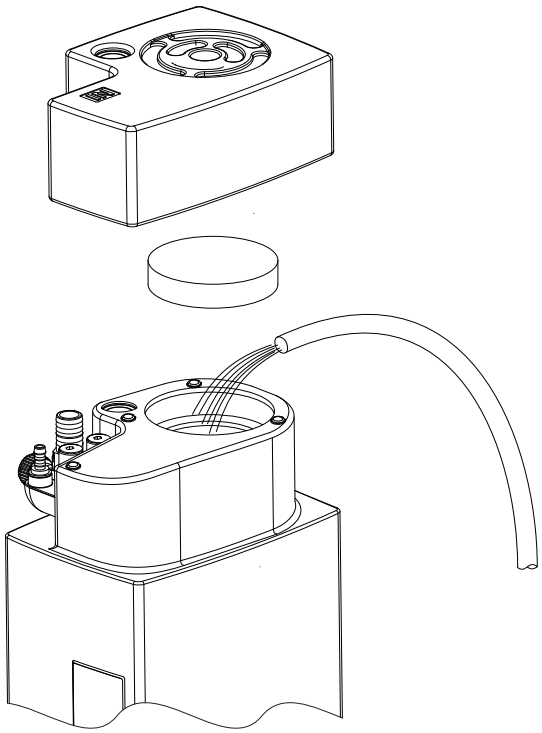
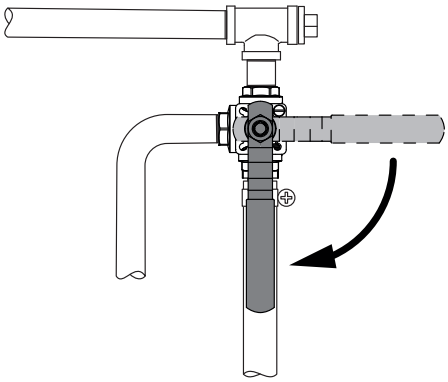
Illustration	Description / explanation
NOTE	**Filter cartridge insertion** Use of incorrect filter cartridges or incorrect insertion of the filter cartridges can cause damage or leakage to the collector and the filter cartridges. • Before inserting the filter cartridges, check to make sure that the filter cartridge is the right one for the product. → The colour of the cap at the bottom of the filter cartridge must be identical to the colour of the cap in the collector. • Insert the filter cartridges vertically and carefully into the collector.
	10. Insert the filter cartridge into the mount on the foot with the bayonet mount facing the connecting pipe. 11. Turn the filter cartridge clockwise all the way. 12. Align the connecting filter cartridge's connection with the connection on the connecting pipe. 13. Slide the bayonet mount over the connection and turn it clockwise as far as it will go.

Illustration	Description / explanation
	14. Place the end cap on the filter cartridge and turn it clockwise all the way.
	15. Remove the cover from the pressure relief chamber and remove the activated carbon mat from the vent of the pressure relief chamber. → Check the activated carbon mat for heavy soiling (e.g. mould, oil saturation, etc.) and replace it if necessary. 16. Fill the product with tap water through the vent. → Stop filling it as soon as water comes out from the condensate outlet. 17. Insert the activated carbon mat into the vent of the pressure relief chamber and place the cover on the pressure relief chamber.
	18. Slowly open the condensate feed. 19. Check all hoses and connections for leaks (see section “9.3.5 Leakage test” on page 53). → Tighten if necessary 20. Slowly pressurise the system.

9.3.3 Cleaning

9.3.3.1 Warning notices

CAUTION	**Personal injury due to inappropriate use of cleaning media**
	Inappropriate use of cleaning media may result in minor injuries and damage to health.
	• Use personal protective equipment. • Use cleaning media in accordance with the manufacturer's instructions.

NOTE	**Damage due to inappropriate cleaning**
	Inappropriate cleaning can cause damage to components.
	• Only ever flush the product at normal (i.e. low) tap pressure. • Never clean the device with hard or pointed implements. • Do not clean using pressure washers or steam cleaners.

NOTE	**Observe local hygiene regulations**
	In addition to the cleaning instructions listed, any regionally applicable or company-specific hygiene regulations must be observed.

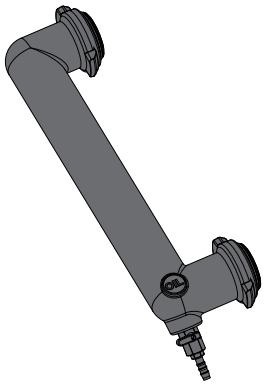
NOTE	**Inappropriate disposal of cleaning water**
	Do not return cleaning water containing detergent to the device. The introduction of cleaning water containing detergents into the device can cause the filter cartridges to malfunction due to the surfactants it contains.
	• Dispose of the cleaning water properly and in compliance with all locally applicable legal requirements and regulations.

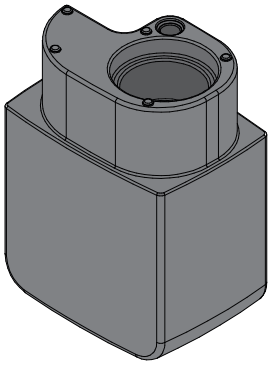
INFORMATION	**Heavy soiling and deposit build-ups in the collector**
	Replace the collector if it is heavily soiled with solid deposits and very large quantities of oil.

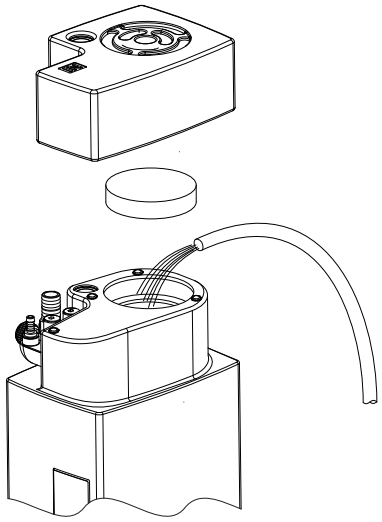
9.3.3.2 Cleaning work

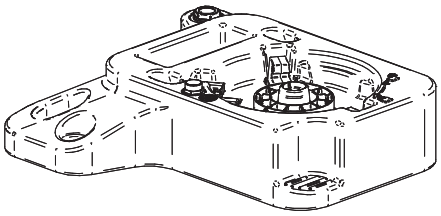
For cleaning work to be carried out, the following prerequisites must be fulfilled and the respective preparatory tasks must have been completed.

Prerequisites		
Tools	**Material**	**Protective equipment**
Heavy soiling: • Collecting container	**Light soiling:** • Warm water • Cotton or disposable cloth **Heavy soiling:** • Warm water • Normal, commercially available detergent	**Always to be worn:** 

Degree of soiling	Illustration	Description / explanation
Connecting pipe soiled		**Preparatory tasks:** 1. The product has been decommissioned. 2. The assembly unit to be cleaned has been dismounted (see section “12. Disassembly” on page 57). 3. Bring the assembly unit to be cleaned to a washing station with an integrated oil separator.
		Cleaning: • Flush the connecting pipe warm water.
		Final steps: 1. Dry the cleaned assembly with a cotton cloth. 2. Transport the cleaned and dried assembly unit to the product installation location and mount it (see section “6. Assembly” on page 26). 3. Put the product back into operation (see section “7. Commissioning” on page 36).

Degree of soiling	Illustration	Description / explanation
Pressure relief chamber soiled		**Preparatory tasks:** 1. The product has been decommissioned. 2. The assembly unit to be cleaned has been dismounted (see section “12. Disassembly” on page 57). 3. Bring the assembly unit to be cleaned to a washing station with an integrated oil separator. **Cleaning:** • Flush the pressure relief chamber with warm water. **Final steps:** 1. Dry the cleaned assembly with a cotton cloth. 2. Transport the cleaned and dried assembly unit to the product installation location and mount it (see section “6. Assembly” on page 26). 3. Put the product back into operation (see section “7. Commissioning” on page 36).

Degree of soiling	Illustration	Description / explanation
Collector lightly soiled, high water turbidity at condensate outlet		**Preparatory tasks:** • Remove the cover from the pressure relief chamber and remove the activated carbon mat from the vent of the pressure relief chamber. **Cleaning:** • To clean, fill approx. 40 l of tap water at normal pressure via the vent and flush the unit with it → Collect the condensate until the target turbidity is reached. → During the flushing process, keep the water fill level as high as possible and allow the water to drain. **Final steps:** 1. Fill the product with tap water through the vent. → Stop filling it as soon as water comes out from the condensate outlet. → Feed the condensate back in via the vent. 2. Insert the activated carbon mat into the vent of the pressure relief chamber and put the cover back on the pressure relief chamber.

Degree of soiling	Illustration	Description / explanation
Collector heavily soiled, solid deposits and large amounts of oil in the collector		**Preparatory tasks:** 1. The product has been decommissioned. 2. The assembly unit to be cleaned has been dismounted (see section “12. Disassembly” on page 57). 3. Bring the assembly unit to be cleaned to a washing station with an integrated oil separator.
		Cleaning: 1. Remove the cap (if present) from the collector discharge opening and empty the collector. → Collect or vacuum-extract the condensate. 2. Mix tap water with detergent and fill it into the collector discharge opening. 3. Carefully shake the collector with the discharge opening facing upwards until the deposits are loosened. → Depending on the size and weight of the collector, get a second person to help. 4. Fill and empty the collector several times with fresh water at normal pressure until the desired cleaning result is achieved. → Collect the dirty flushing water and dispose of it separately. 5. Return the cap to the collector discharge opening.
		Final steps: 1. Fit the product with new cartridges (see section “9.3.2 Replacing filter cartridges” on page 43).

9.3.4 Visual inspection

During the visual inspection, check all components for mechanical damage and leaks. Replace damaged components immediately.

9.3.5 Leakage test

A leakage test is only possible if the product is completely filled with water.

1. Fill the product with tap water through the vent until water comes out of the condensate outlet.
2. Check all hose and other connections for leaks.

Error or fault pattern	Measure
Leaky hose connection	• Tighten the hose clamp. • Replace hardened hose and respective hose clamps.
Bayonet catch leaking	• Check the fit of the seal and correct if necessary. • Check the seal for damage and replace if necessary. • Tighten the bayonet fitting. • Check the seal for damage and replace if necessary.
End cap leaking	• Check the fit of the seal and correct if necessary. • Check the seal for damage and replace if necessary. • Tighten the end cap.

10. Consumables, accessories and spare parts

10.1 Order information

The manufacturer's customer service department requires the following details for enquiries and orders:

- Product name and size (see type plate)
- Serial number (see type plate)
- Material number and designation of the accessory
- Required quantity of accessories to be delivered

The contact information for the relevant manufacturer customer service team is listed in section "1.1 Contact" on page 4.

10.2 Wear parts

Designation	Material number
Filter cartridge, including two plastic plugs	4051809
Activated carbon mat, pressure relief chamber	4058539

10.3 Accessories

Designation	Material number
QWIK-PURE® 10spill protection basin 900 mm x 800 mm (35.43 in x 31.5 in)	4047643
Alarm sensor, normally open contact (NO)	4058541
High pressure relief chamber	2801292

10.4 Spare parts

Designation	Material number
Pressure relief chamber 25 l (6.6 gal)	4058519
Cover, pressure relief chamber	4059531
Float, pressure relief chamber	4058544
Condensate inlet, rotatable, including fixing screw	4058538
QWIK-PURE® 10 clean water tank, 2.5 l (0.66 gal)	4058527
Foot	4058517
Collector 1 x 1 filter cartridge	4058532
Plug for collector	4058545
Connecting pipe	4058524
Reference turbidity tube 5 ppm	4010073
Reference turbidity tube 10 ppm	4001471
Elbow connector with union nut, reducer fitting and flat gasket	4059172
Fixing screw	4059164
Riser duct	4058551
End cap	4058550
Locking device, foot	4058548
Bayonet insert, collector	4058542
Plug-type connector, M12, 4-pin	4055860
Schuko power cable	4056043
NEMA power cable	4056045
Seal kit: • G1" flat gasket • Condensate inlet O-ring • Filter cartridge seal • Clean water tank outlet seal • Pressure relief chamber outlet seal • **FRC** control unit seal	4058536

11. Decommissioning

Personnel
Skilled technical personnel - product servicing (see section “2.3 Target group and personnel” on page 8)

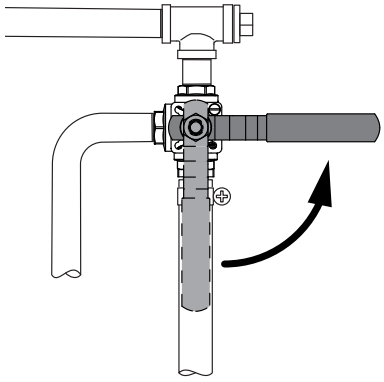
The product must be removed from service for prolonged periods of non-operation, e.g.:

- Repairs to the product or accessories
- Longer standstill of the entire system due to planned work (e.g. conversion work, major repairs, decommissioning of the overall system)

11.1 Warning notices

DANGER	Sudden escape of pressurised fluids
	There is a danger of death or serious personal injury resulting from contact with fast or suddenly escaping fluids or through bursting system parts.
	• Before starting work, depressurise the pressurised system and secure it against unintentional pressurisation.

11.2 Decommissioning steps

Illustration	Description / explanation
	1. Cut off the condensate feed to the product and divert the condensate into a separate container.

12. Disassembly

Personnel
Skilled technical personnel - product servicing (see section “2.3 Target group and personnel” on page 8)

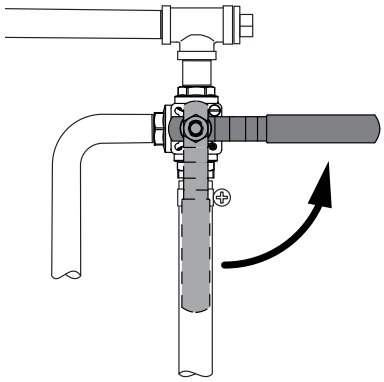
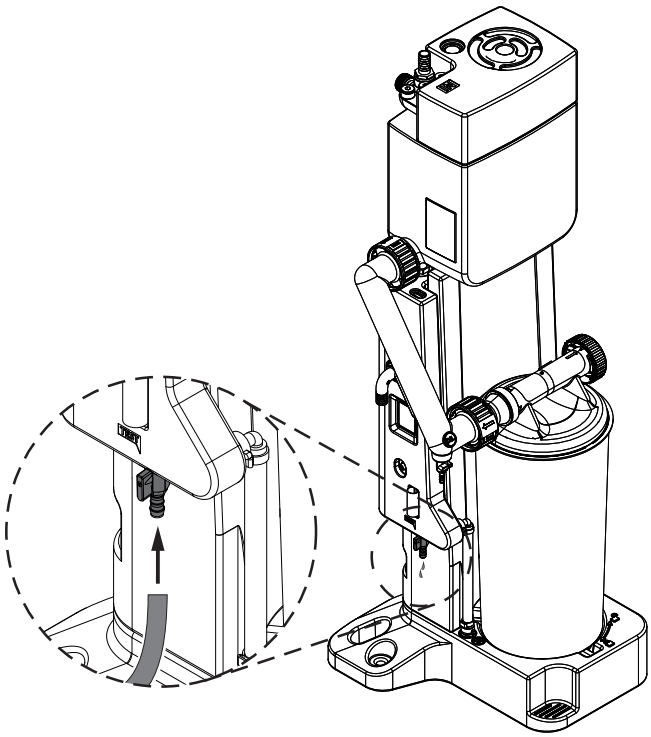
12.1 Warning notices

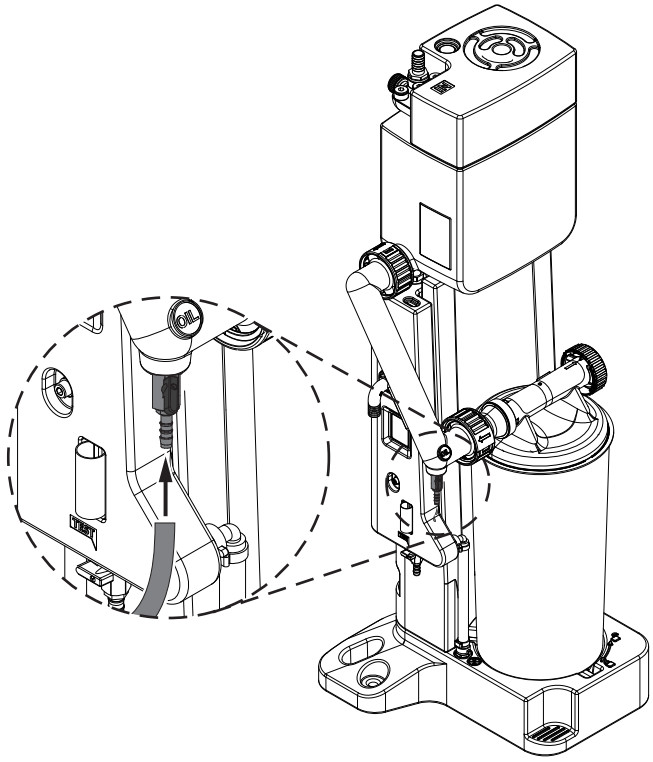
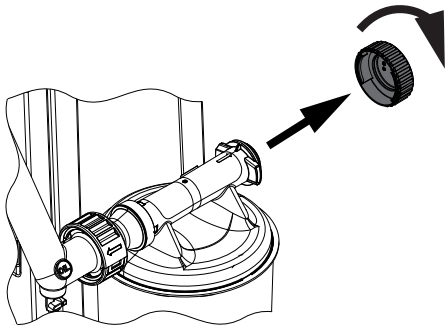
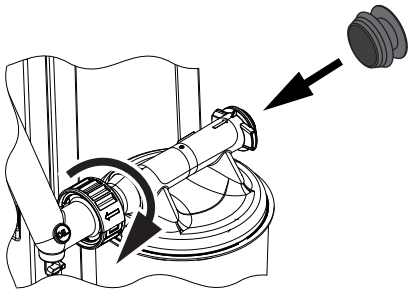
DANGER	Sudden escape of pressurised fluids
	There is a danger of death or serious personal injury resulting from contact with fast or suddenly escaping fluids or through bursting system parts.
	• Before starting work, depressurise the pressurised system and secure it against unintentional pressurisation.

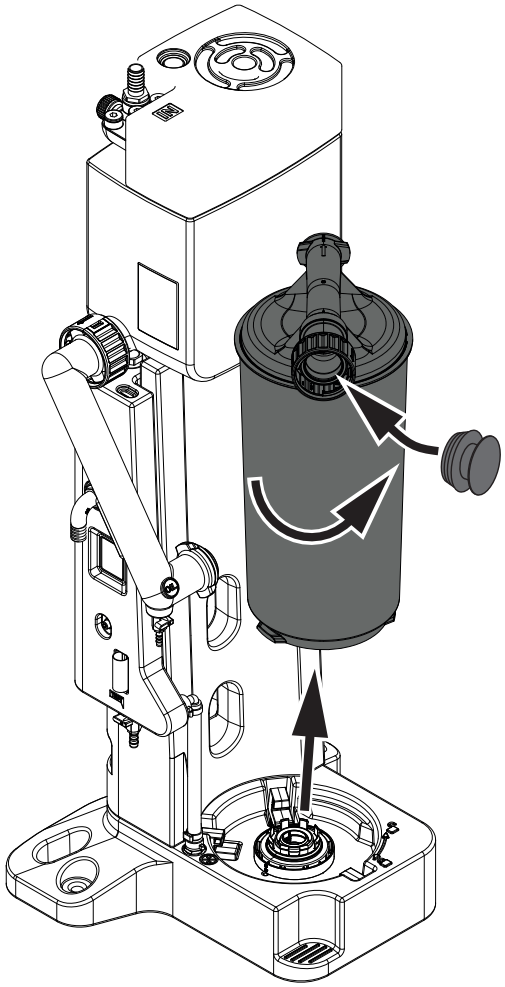
12.2 Disassembly work

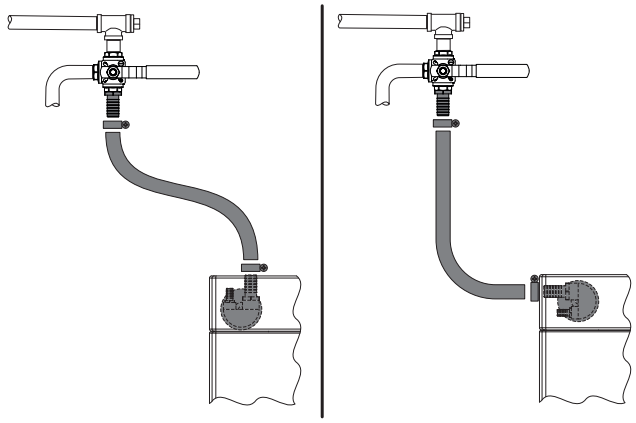
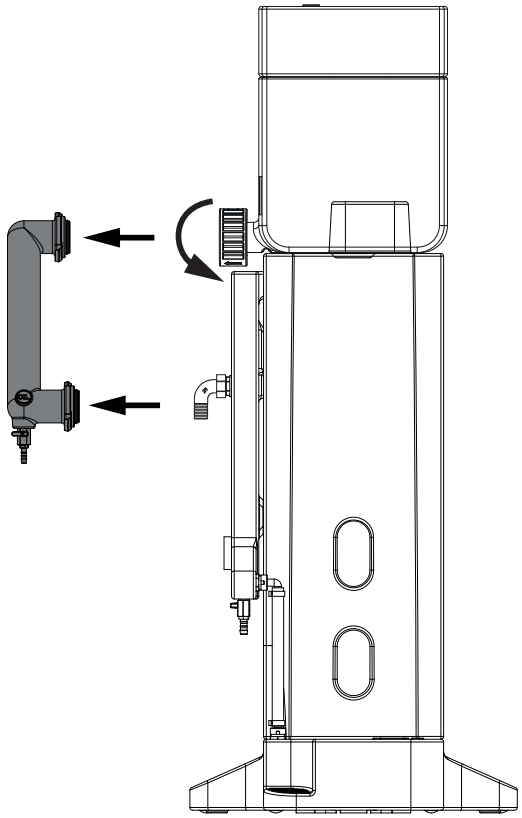
For disassembly work to be carried out, the following prerequisites must be fulfilled and the preparatory tasks must have been completed.

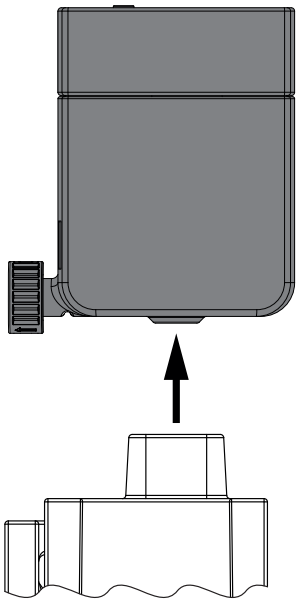
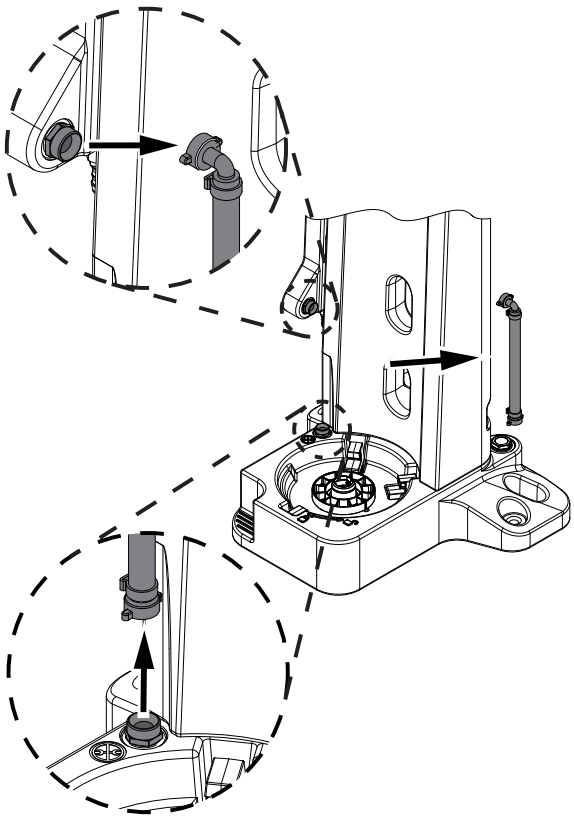
Prerequisites		
Tools	**Material**	**Protective equipment**
• Adjustable spanner • Water pump pliers	• No material necessary	**Always to be worn:** 

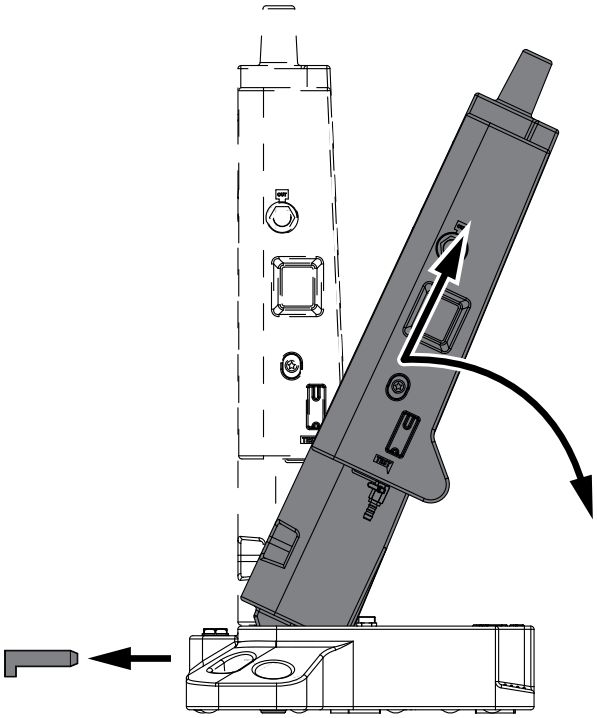
Disassembly work	
Illustration	**Description / explanation**
	1. Cut off the condensate feed to the product and divert the condensate into a separate container.
	2. Connect the service valve on the clean water tank to a collecting container and open the service valve. → Close the service valve the moment that condensate stops coming out.

Disassembly work	
Illustration	**Description / explanation**
	3. Connect the drain valve on the connecting pipe to a collecting container and open the drain valve. → Close the drain valve the moment that condensate stops coming out. → Collect and dispose of any leaking or spilled condensate in accordance with locally applicable legal requirements and regulations.
	4. Turn the end cap on the filter cartridge anticlockwise and remove it. → Put the end cap to the side, as you will be screwing it back onto the new filter cartridge.
	5. Use the plug to seal the filter cartridge.

Disassembly work	
Illustration	**Description / explanation**
CAUTION 	**Lifting heavy loads** Lifting the full filter cartridge in an ergonomically incorrect manner can result in personal injury. • Lift the full cartridge in an ergonomically correct manner close to your body. • Use two people to lift the full cartridge over obstacles.
	6. Turn the bayonet mount of the filter cartridge anticlockwise and pull it off from the connection at the measuring chamber outlet. 7. Turn the filter cartridge 45 degrees anticlockwise and seal it with the plugs. 8. Lift the filter cartridge out of the collector and dispose of it properly (see section “13. Disposal” on page 64).

Disassembly work	
Illustration	**Description / explanation**
	9. Remove the hose between the tapping point and the pressure relief chamber.
	10. Empty and remove the connecting pipe. 11. Clean the connecting pipe (see section “9.3.3 Cleaning” on page 48).

Disassembly work	
Illustration	**Description / explanation**
	12. Empty and remove the pressure relief chamber. 13. Clean the pressure relief chamber (see section “9.3.3 Cleaning” on page 48).
	14. Remove and clean the riser duct.

Disassembly work	
Illustration	**Description / explanation**
	15. Remove the locking device from the foot. 16. Remove the foot from the collector. Make sure to tilt the foot in the direction of the filter cartridge mount. 17. Empty and clean collector. 18. Dispose of the dismantled components properly (see section “13. Disposal” on page 64).

13. Disposal

At the end of their useful life the product and the accessories must be sent for disposal e.g. by a specialist company. Materials such as glass, plastics and some chemical compounds are mostly recoverable, reusable or recyclable.

13.1 Warning notices

NOTE	Inappropriate disposal
	The improper disposal of parts, components, operating and auxiliary materials, and cleaning products can cause environmental damage.
	• Dispose of all components, parts, operating and auxiliary materials as well as cleaning agents professionally and in accordance with all locally applicable legal requirements and regulations. • Dispose of electrical and electronic components using a specialist disposal company or return them to the manufacturer. • In case of doubt, consult a local disposal company before disposal.

NOTE	Inappropriate storage
	The improper storage of parts, components, operating materials and auxiliary materials, as well as cleaning media, can cause environmental damage.
	• Store all components, parts, operating and auxiliary materials as well as cleaning media properly and in accordance with all locally applicable legal requirements and regulations. • Store used filter cartridges in one spill protection basin only.

13.2 Disposal of operating and auxiliary materials

Operating material / auxiliary material	EU waste code
Adsorption materials, filter materials, cleaning wipes and protective clothing - contaminated by oils or other hazardous substances	15 02 02
Adsorption materials, filter materials, cleaning wipes and protective clothing - with the exception of those classified by 15 02 02	15 02 03
Packaging - paper and cardboard	15 01 01
Packaging - plastic material	15 01 02
Waste oil - mineral	13 02 05
Waste oil - synthetic	13 02 06

13.3 Disposal of components

Ensure the following prerequisites are met before disposal:

Prerequisites	
1.	The product and the accessories have been decommissioned and disassembled.
2.	The product and the accessories have been cleaned and any fluid residue has been removed from them.

Components	EU waste code
Plastic material	20 01 39
Metals	20 01 40

14. Troubleshooting

In the event of any malfunctions which are not described, malfunctions which cannot be eliminated or questions, contact the manufacturer's customer service department (see "1.1 Contact" on page 4).

Error or fault pattern	Possible cause	Measure
The level indicator's red marking is visible.	1. The filter cartridge cannot absorb any more oil.	Replace the filter cartridge (see section "9.3.2 Replacing filter cartridges" on page 43).
	2. The filter cartridge is clogged.	Replace the filter cartridge (see section "9.3.2 Replacing filter cartridges" on page 43).
	3. The riser is clogged.	Clean or replace the riser.
Water is coming out from the ventilation opening of the clean water tank.	1. The water outlet hose on the elbow connector is clogged.	Clean or replace the water outlet hose.
	2. The connection to the wastewater system is clogged.	Check and clean the connection to the wastewater system.

15. Notes

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